

1352-2



Permalector



PITTSBURGH REFLECTOR COMPANY

OLIVER BUILDING • PITTSBURGH • PENNSYLVANIA

CATALOG-40
JANUARY, 1941

GENERAL INFORMATION FOR ORDERING

WHERE TO SEND ORDERS

For the convenience of our customers, Pittsburgh Reflector Company maintains 21 sales offices and has appointed over 200 electrical wholesalers to act as Permaflexor Distributors. These are located in principal cities throughout the United States and carry stock of our products. **Pittsburgh Reflector Company sells through the Electrical Trade.** Therefore, any user desiring to purchase Permaflexor Lighting Equipment shown in Catalog No. 40 should order from his electrical contractor or dealer who will obtain the equipment from the distributor.

PRICES

The prices shown herein are subject to change without notice. These retail prices are effective only in the United States Domestic Trade. The possession of this catalog by any person or concern is not to be construed as an offer to sell the goods referred to at the prices herein stated to such person or concern nor anyone else. The retail prices shown herein supersede all previous retail price lists. Any recognized wholesaler desiring to qualify as an "Authorized Permaflexor Distributor" may apply to the Permaflexor Sales Representative in the territory. **Distributor price schedules will be available only to our Authorized Permaflexor Distributors.**

HOW TO ORDER

Permaflexor Catalog No. 40 has been carefully designed to simplify and speed up ordering. The Quick-Selection Index saves time in locating types of equipment and information. The new system of listing under a single catalog number two or more items making up a complete assembly saves time for the wholesaler and his customers. Heretofore it has been necessary to order Permaflexors and accessories separately whenever required. For a specific example let us take a recessed installation of Permaflexor No. 54 with a hinged ceiling roundel and outlet box cover assembly. Ordinarily, three separate items would be listed on the order. By referring to Page 12 you will find Combination No. 54-4 which includes all three items under one catalog number. Accessory items that have optional use, depending upon installation conditions and types, are listed under "additional equipment". They must be shown separately on the order and are not included in the price of the combination number.

Catalog numbers should invariably be used on all orders. If advisable to refer to a previous order, give its date, number, our invoice number and the name of the consignee of goods, so that delay in locating it may be avoided.

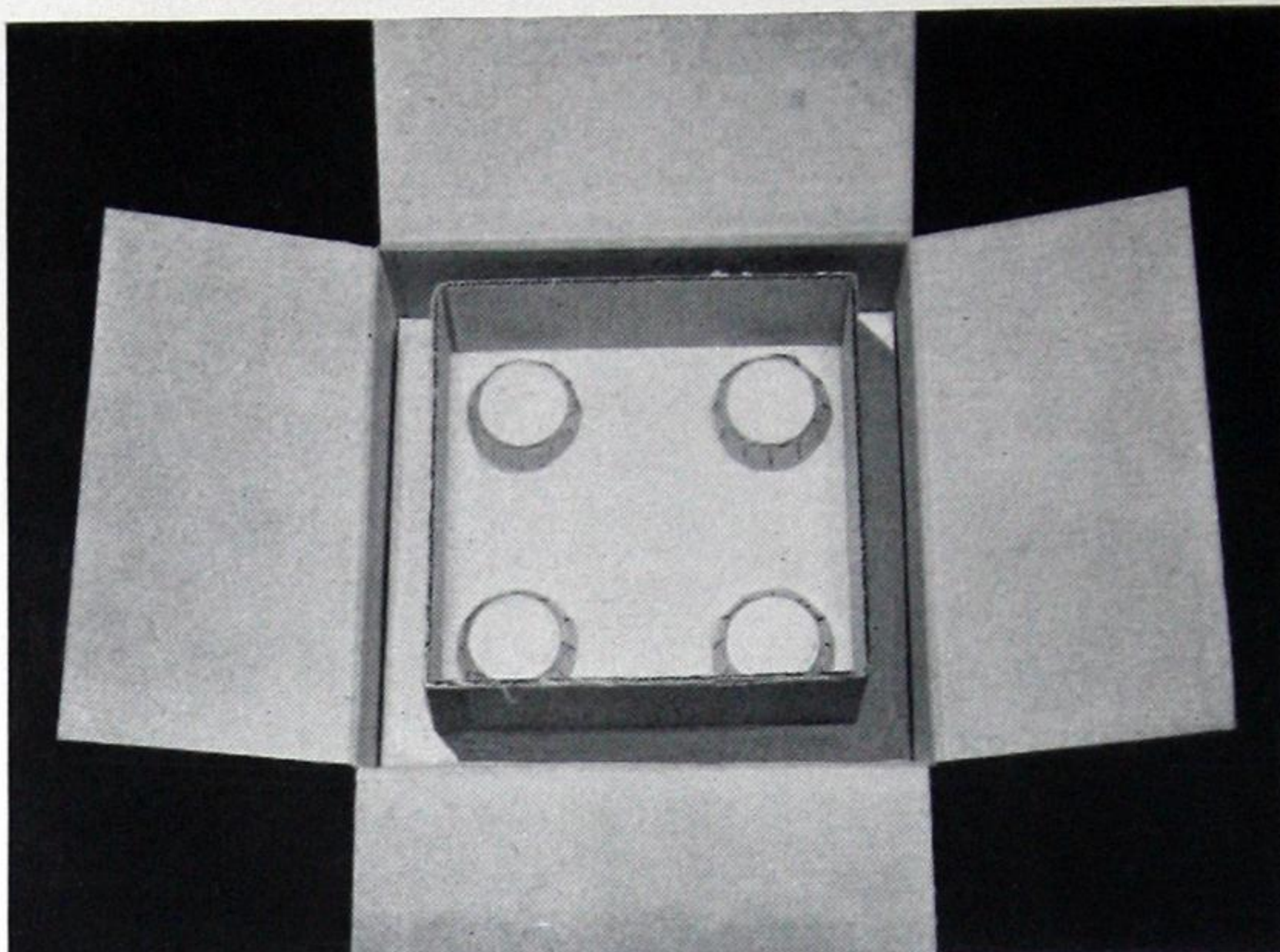
Do not order special equipment or standard equipment with variations in design or finish without consulting a Permaflexor Sales Representative or the Home Office.

PATENTS

The Design, Engineering and Research Departments of Pittsburgh Reflector Company are constantly seeking new high standards in design, efficiency, beauty, quality and economy in lighting equipment. Many new and original features in lighting performance and equipment construction have been developed by us and introduced to users during the past quarter of a century. Distinctive design features and exclusive processes applying to the manufacture, design and performance of the equipment shown in this catalog are covered and protected by the following patents owned by Pittsburgh Reflector Company:

No. 1,824,894	No. 1,941,469	No. 109,660
No. 1,843,558	No. 2,059,868	No. 2,138,635
No. 1,905,143	No. 109,661	No. 2,177,717

PACKING AND BREAKAGE



Specially Designed Cartons for Permaflexors

Permaflexors and Permaflexor Lighting Equipment are shipped in specially designed cartons which are accepted as satisfactory by transportation companies. Therefore, Pittsburgh Reflector Company is not responsible for material lost or damaged in shipment. All claims for breakage should be presented to transportation companies handling the shipment. All possible precautions are taken to prevent injury or delay, and shipments are traced when requested. We cooperate with our customers in having claims adjusted by the carriers.

REFUSE INFERIOR SUBSTITUTES



Permaflexor Trademark Appears on Every Genuine Permaflexor

There is only one "Permaflexor"—the one manufactured and sold by Pittsburgh Reflector Company with the famous Permaflexor Trademark embodying the three pyramids. This Trademark is your guarantee against inferior, cheap, money-wasting substitutes which are purposely made to "look" like Permaflexors. Imitators have copied the shape, fluting and satin aluminum external finish of Permaflexors but have never been able to duplicate their high permanent efficiency which has made Permaflexors preferred by lighting users everywhere. Laboratory comparison tests of Permaflexors against imitations prove conclusively that Permaflexors are made of purer crystal glass of more uniform quality, contain a brighter silvered reflecting surface and—most important of all—will withstand higher temperatures with no damage to the backing or reflecting surface. Make sure you get the only genuine Permaflexor. Look for the Permaflexor Trademark on every reflector.



PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA

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HOW PERMAFLECTORS ARE MADE



JOHN WRIGHT
Mr. Wright has had 40 years' experience and has served as Master Mechanic for 10 years.



FLOYD H. DIMLING
Mr. Dimling is a veteran of 35 years' experience; been Foreman of Spinning Department 7 years.



LEROY WARD
Mr. Ward is our General Foreman and has been with Pittsburgh Reflector Company for 10 years.



JAMES HEBRANK
Mr. Hebrank works in our Silvering Department. He has worked for us for 17 years.



CHESTER RICHARDSON
Mr. Richardson is Foreman in our Glass Department; has served our company 15 years.



WILLIAM CLOHESSY
Mr. Clohessy, Foreman of Construction and Maintenance, has been with us for 17 years.

SKILLED WORKMANSHIP

Our customers are always welcome guests at our factory. For it is here that they can see for themselves the well balanced organization—competent and highly developed in every department. Our factory, illustrated on Page Seven, is situated in the rolling, green foothills of the Alleghenies at Irwin, Pennsylvania. The pleasant rural surroundings and exceptional working conditions are reflected in the splendid morale of the employees. They are conscientious, efficient and take exceptional pride in their work.

Skilled workmanship, the fruit of many years of experience and training, contributes greatly to the quality of Permalector Products. Many of the factory workers have served Pittsburgh Reflector Company for fifteen years or more. These veterans and our younger craftsmen know their jobs and take personal interest in the achievements of the company.

CONTROLLED PRODUCTION

Pittsburgh Reflector Company produces silvered glass reflectors completely in its own plant thereby controlling every step of the process from raw materials to the finished product. We select and use only the finest grade of raw materials. We melt our own glass. We make our own molds. Our reflectors are **hand-blown**, not machine-blown like bottles. We manufacture only one type of glass and, therefore, we have been able to devote our time and energy to producing an unsurpassed quality of product. Its freedom from seeds, stones and cords and its perfect color makes it the equal of the finest imported crystal glass. Every plant operation is subject to supervision by keen-eyed veteran craftsmen. Our extensive precautions make it virtually impossible for a defective unit to reach a customer. We present herewith a brief story in pictures and words on "How Permalectors Are Made."



1 Highest quality sand, soda, lime, feldspar and decolorizer are mechanically mixed to insure a homogeneous batch.



2 Batch is melted in a specially designed furnace to insure a high grade uniform glass, is then gathered on blowpipe.



3 First ball is blown and formed, then cooled by gatherer and ball-boy.



4 A second layer of molten glass is then gathered over the cooled ball, blocked and formed by Bengt Lyrean.



5 Roy Linhart, highly skilled and experienced glass-blower, forms and distributes the glass to desired thickness.



6 Formed glass is then placed in iron mold and skillfully blown to shape of reflector.



7 The reflector is then placed in an electrically controlled tempering furnace or lehr for thorough annealing.



8 Excess glass is removed by "chipping" with a saw blade.



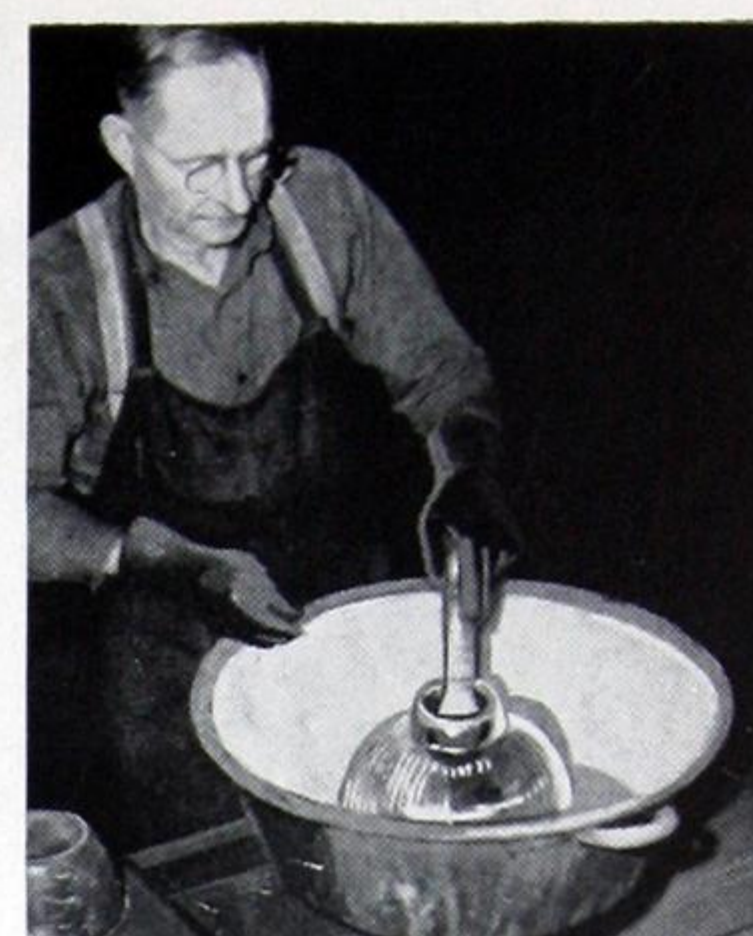
9 Reflector necks are then marked with the number, month and year of manufacture.



10 Edges of reflector are then ground smooth and clean.



11 Washed, first to remove grinding materials.



12 Then two layers of metallic silver are deposited on the outer surface of reflector.



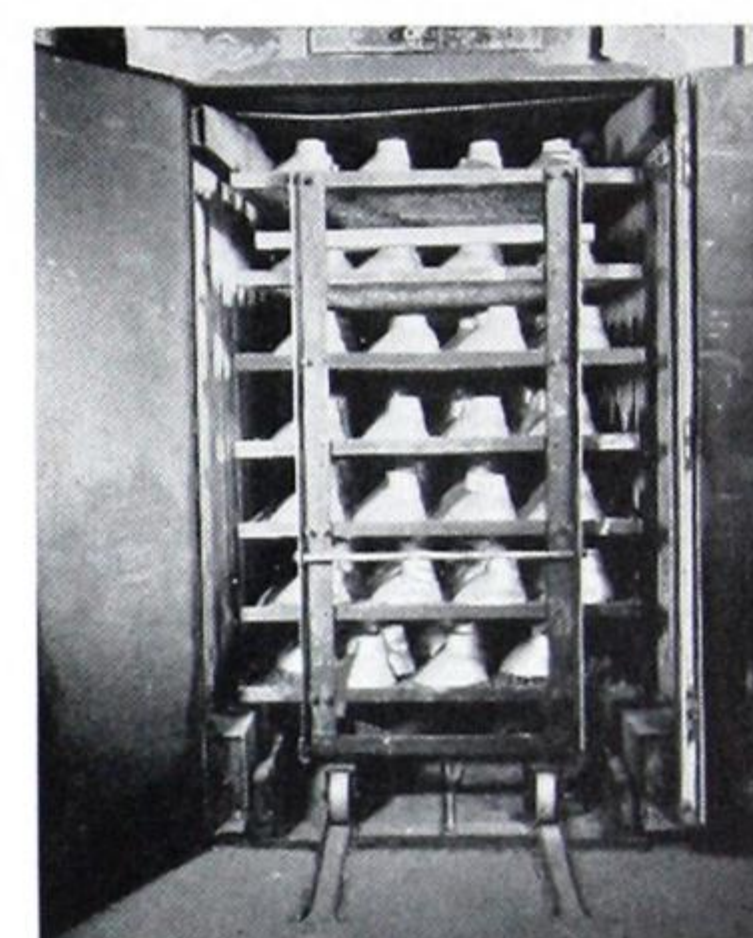
13 This is followed by laying a deposit of copper over the silver which seals the silver between the copper and glass.



14 The excess copper is removed at the trimming tubs and reflectors washed.



15 Reflectors are then given two coats of special heat resisting paint.



16 Baked and severely heat tested in a special oven at high temperature.



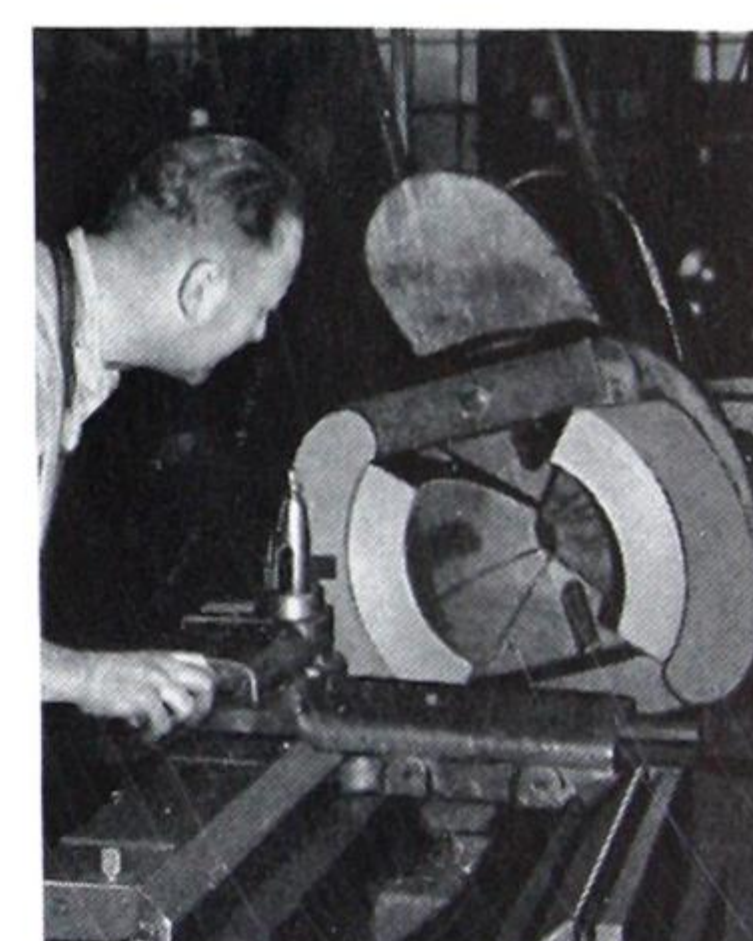
17 After this test the reflectors are again cleaned and carefully inspected.



18 The famous Permaflexor Trademark is applied to every reflector.



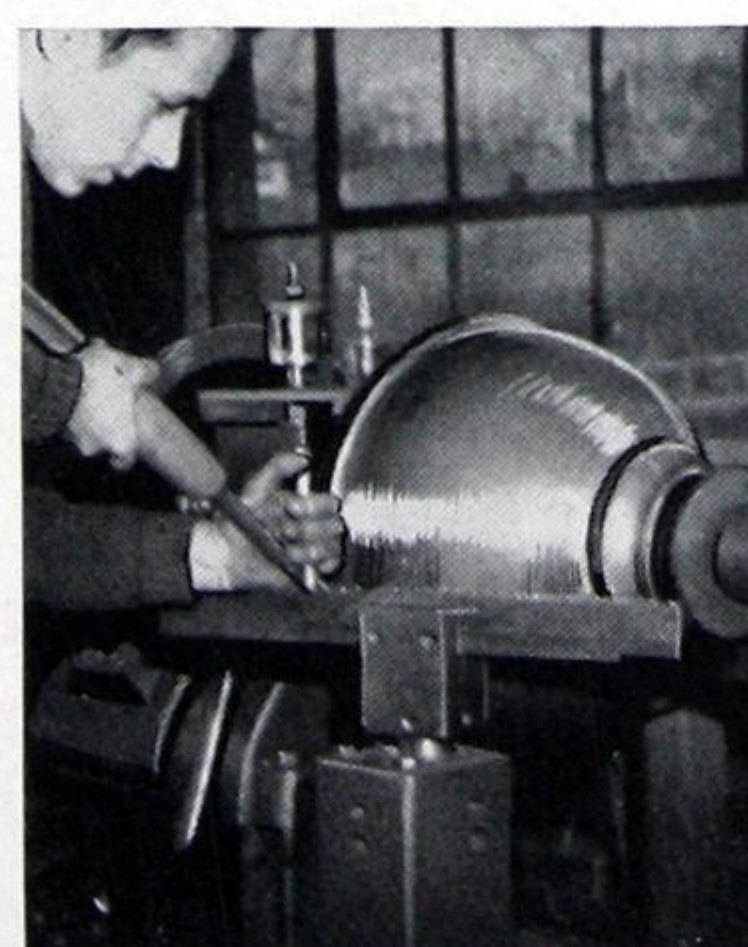
19 Permaflexors are then specially wrapped and packed to eliminate the possibility of breakage.



20 A well equipped machine shop enables us to produce all dies, molds and special tools required in our manufacturing.



21 A ten foot power press brake in operation in our sheet metal department.



22 One of a battery of spinning lathes in operation.



23 One of our many metal polishing lathes in operation.



24 Harry Ward, Shipper, directs daily shipments of Permaflexors to many parts of the world.



LASTING BRIGHTNESS WAY TO LIGHTING ECONOMY



Crystal Glass, made in our own factory that we may control every step of the process. Result—clear, sparkling, uniform.



Pure silver, double plated—the surface that reflects light with least loss by absorption.



Copper envelope—seals the silver between glass on the one side and copper on the other. Like a copper roof it is a lifetime protection.



Silver colored satin finish—distinctive, handsome, harmonizes with all backgrounds.

On the preceding two pages we have presented pictures illustrating the many carefully controlled steps involved in the entire process of manufacturing Permaflexors. The above illustrations summarize briefly the Permaflexor Process and emphasize the four important steps in achieving the "lasting brightness" which made Permaflexors the standard of efficiency and economy in the lighting field. The **permanent efficiency** of Permaflexors is demanded by thousands of users everywhere because they have learned from experience that there is the cost-to-use as well as the cost-to-buy.

Cheap reflectors are dear at any price. The price-to-buy may be attractively low. But the cost-to-use is expensively high.

If, for every dollar which the merchant spends for current, he gets only 60c worth of window illumination, (because the other 40c worth is wasted by poor reflectors), wherein lies the economy of a poor reflector?

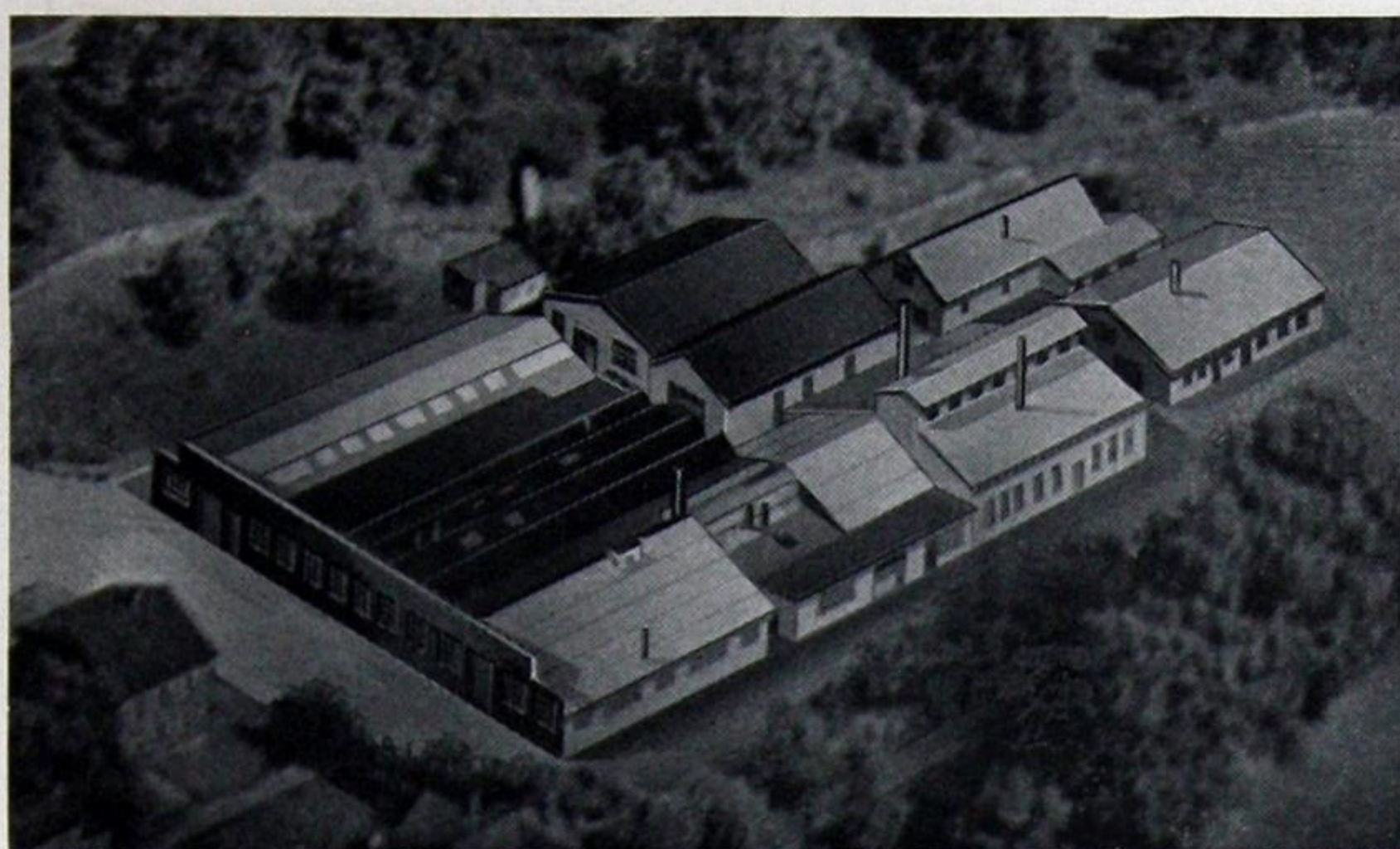
For example, suppose a merchant has two show windows, each using ten 150 watt lamps—At 3c per kilowatt hour, twenty 150 watt lamps burning ten hours each day will consume \$270.00 worth of current in a 300 day year. If poor reflectors are absorbing 40% of the reflected light (many absorb up to 60% and more) the merchant might lose enough in a year's time to pay the entire cost of good reflectors.

Why pay—and keep on paying—for something you don't get but might as well have?



PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA

THE PERMAFLECTOR ORGANIZATION



AERIAL VIEW BY R. C. FISKE

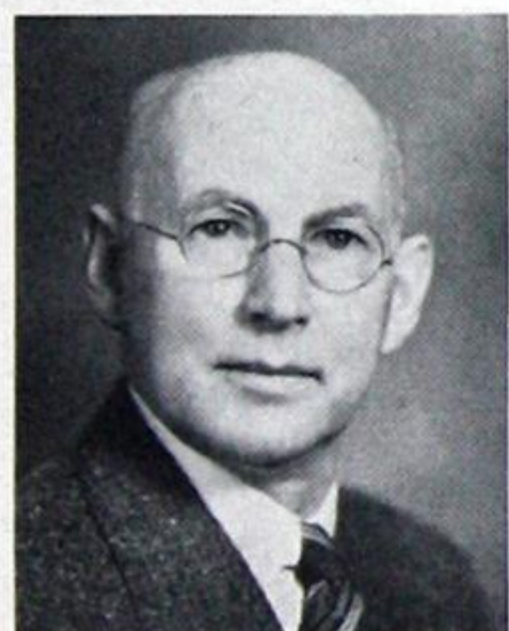
Aerial View of Pittsburgh Reflector Company Plant at Irwin, Pennsylvania

Pittsburgh Reflector Company was started in 1910 as the Prismatic Mirror and Reflector Company and consisted of a small processing plant located in Pittsburgh, Pennsylvania. In 1915, E. S. Simons, who along with several others founded the company, developed a new process for manufacturing silvered glass reflectors to fill the need for a reflector that would withstand the excessive heat produced by the gas-filled type "C" lamps which had just been introduced. The success and steady growth of Pittsburgh Reflector Company is due to the outstanding performance of this basic product — now nationally known as the "Permalector." Today, Pittsburgh Reflector Company is a national concern with sales offices in principal cities in the United States. A complete glass, metal and processing plant produces a line of lighting equipment which includes over 800 different items for use with both incandescent and fluorescent lamps.

For customers who like to know the type of people with whom they are dealing we present herewith pictures and a few brief facts about our executives.

EXECUTIVE STAFF

E. W. SIMONS, President



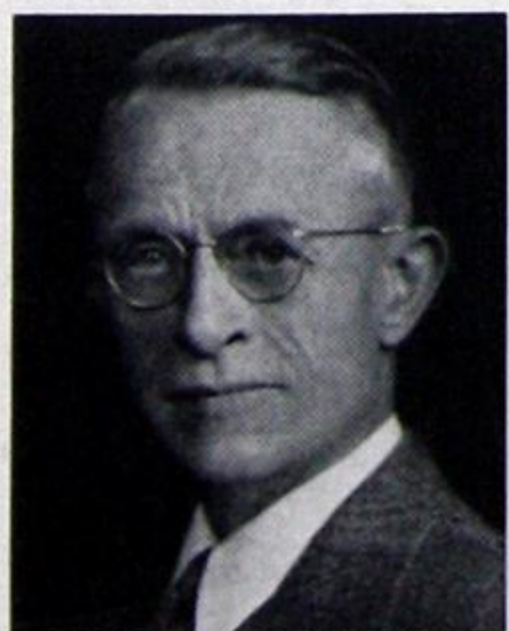
Mr. Simons' executive career began in 1903 as Sales and Advertising Manager, Director and Secretary of Wells, Abbott, Nieman Company, Schuyler, Neb., then the largest flour mill west of the Mississippi outside of Minneapolis. In 1910 he became Advertising Manager, and later Director of James Manufacturing Company, Fort Atkinson, Wis.; joined Pittsburgh Reflector Company in 1922 as Vice-President; elected President in 1934; serves on Board of Directors for Pittsburgh Reflector Company and James Manufacturing Company.

JOHN A. HOEVELER, First Vice-President



Mr. Hoeveler has been actively engaged in illuminating and electrical engineering since his graduation from the University of Wisconsin in 1911; served as Assistant Chief Engineer at National X-Ray Reflector Company; was appointed Electrical and Illuminating Engineer of the Industrial Commission of Wisconsin in 1917. He came with Pittsburgh Reflector Company as Manager of the Engineering Department in 1926. He has been an active member in the I. E. S. since 1912.

W. K. YONGE, Vice-President



Following his graduation from Virginia Tech in 1909 as an engineer Mr. Yonge entered the manufacturing field as a metallurgical chemist with Tennessee Copper Company. He served in that capacity with some of the nation's leading metal companies; joined Pittsburgh Reflector Company in 1919 and has been Plant Superintendent for 21 years. He was elected Vice-President in July, 1940. He has served on the Board of Directors since 1920.



H. C. ZINSMEISTER, Treasurer

Before coming to Pittsburgh Reflector Company as Auditor in 1934, Mr. Zinsmeister studied at Duquesne University and gained 26 years' experience with leading auditing and business firms in Pittsburgh. For 15 years he was Assistant Secretary and Treasurer of Eppinger-Carpenter Pump Company. He was Auditor for Sutton and Company, Wolfe and Company and Watkins and Company, Certified Public Accountants. He was appointed Treasurer in July, 1940.



ROBERT C. FISKE, Secretary

For many years Mr. Fiske has been close to the Management of Pittsburgh Reflector Company and has long been well acquainted with the business. In 1933, after attending Duquesne University, he became actively connected with the company and has served in many capacities, both at the office and factory. For two years he was Secretary to the President and was appointed Secretary of the Company in July, 1940.



CHARLES H. GODDARD, Gen. Sales Manager

Mr. Goddard studied at Ohio University, University of Pennsylvania and Ohio State University; began his sales and lighting career with Columbus Lighting and Power Company, Columbus, Ohio; started with Pittsburgh Reflector Company in 1931; elevated to New York Branch Manager in 1932. He was appointed General Sales Manager in August, 1940. Mr. Goddard is active in the I. E. S. and the Electrical and Gas Association of New York.



EARL B. HOLDREN, Advertising Manager

Before entering the advertising field Mr. Holdren worked for a number of industrial concerns; studied advertising, art and design at Carnegie Institute of Technology and the Art Institute of Pittsburgh; free-lanced as a designer and artist in New York and Pittsburgh; worked three years selling and producing for advertising art studios; spent three years in advertising agency as designer, copy writer and contact man; joined Pittsburgh Reflector Company in 1937 as Advertising Manager.



LAWRENCE G. SCHIFANO, Chief Draftsman

Mr. Schifano studied at Carnegie Institute of Technology; obtained experience with several Pittsburgh industrial firms; joined Pittsburgh Reflector Company in 1923. For 17 years he has served as a draftsman and designer and has been identified with the development of various phases of the Permalector Line with many good ideas to his credit. He is product detail expert and consultant on all problems relating to Permalector Equipment and its use.



H. K. PRACHT, Plant Superintendent

In addition to his studies of Mechanical Engineering at West Virginia University and Carnegie Institute of Technology, Mr. Pracht has had broad experience in the steel, automotive and mining industries. Also, he served two years in the U. S. Naval Aviation Division during World War I as a First Class Machinist. He came with Pittsburgh Reflector Company in 1923 as Assistant Superintendent; was made Superintendent in July, 1940.



PERMAFLECTOR LIGHTING

PERMAFLECTOR LIGHTING IN ARCHITECTURE

Leading and progressive architects appreciate the value of light as an important influence on the beauty and utility of their architectural designs. Accordingly, they are planning their structures with light as an integral part of their designs.

Planned lighting enhances the beauty of any architectural interior or exterior. Moldings, fluted bands or columns, pilasters and walls become alive with glowing richness. Skillful balancing of light and shade accents structural lines and three dimensional patterns. In modern architecture, planned lighting creates an "organic" decorativeness—a "related" beauty that is unexcelled.

New architectural practice is founded on functional efficiency. Production, safety, morale and health are strongly affected

by lighting. Ease of seeing is important in work or play. Various tasks of seeing require different levels and character of illumination. Planned lighting provides proper illumination where and when it is needed thereby contributing greatly to functional efficiency.

Modern efficient lighting equipment is the new tool with which the architect achieves designs of distinctive beauty and functional efficiency.

Permaflexor Lighting Equipment has been designed by engineers whose knowledge of lighting and sympathetic understanding of architectural practice has enabled them to produce a complete line of lighting equipment ideally suited to carry out the objectives of the architect.

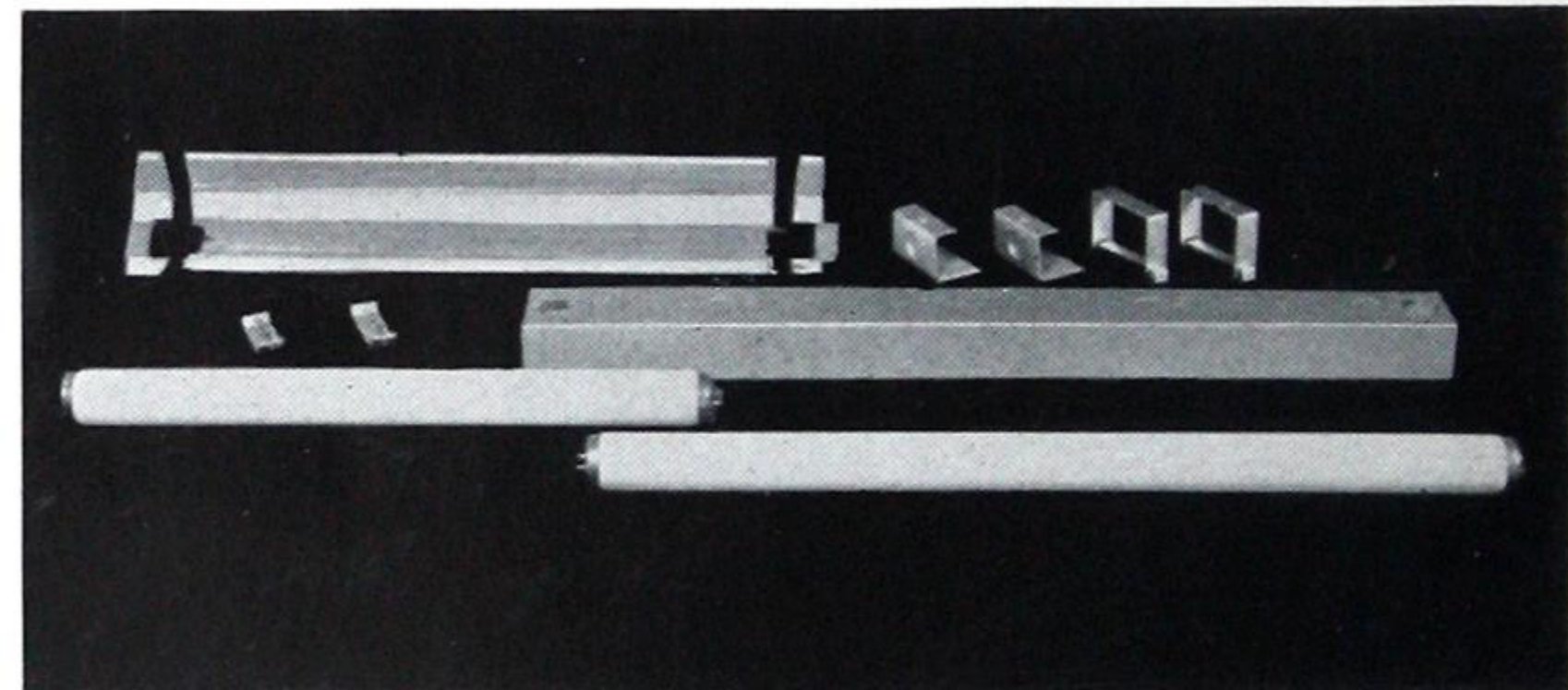
FUNDAMENTALS OF GOOD LIGHTING

It is impracticable to set forth any specific rules that might apply to the design of every type of lighting installation. To ensure satisfactory performance and maximum efficiency individual attention must be given to each problem by a trained and experienced illuminating engineer. It is for this reason that we offer our customers the services of our engineering department as listed on Page Ten. Generally speak-

ing, however, the following factors should be considered when designing a lighting installation:

1. Kind of lighting system.
2. Quantity of illumination required.
3. Type of light source.
4. Correct equipment and installation thereof for efficient light control.

SELECTING THE PROPER LIGHT SOURCE



For many years the universally employed light source for most interior and exterior lighting applications as well has been and is the incandescent filament lamp. More recently the high pressure mercury vapor lamp and the sodium lamp came into use but not extensively for interior lighting. The mercury lamp is used in factories to a certain extent and the sodium vapor lamp is limited mainly to street and bridge illumination.

Within the last two years, however, the fluorescent tube lamp was introduced and its use has extended itself phenomenally for interior lighting purposes of great variety. This particular growth in use has led to some disappointments. The fluorescent lamp is not the light source which will displace incandescent filament lamps. Rather it is a light source which will fill in the gap and supplement lighting practice. Wisdom dictates that it be used for those lighting services which it can do better than the incandescent filament lamp; but where the filament lamp does a better job it is not good practice to use the fluorescent lamp.

The old saying, "Familiarity breeds contempt" has closed the eyes of many a fluorescent lamp enthusiast to the virtues of the incandescent filament lamp which has been with us for so many years. Let us review the merits of the incandescent filament lamp.

1. The incandescent lamp is the most convenient light source ever devised by man. It is truly "the divided electric light" envisioned by Thomas A. Edison sixty years ago. Incandescent lamps are available for almost any conceivable lighting service in a wide range of sizes from the tiny grain of wheat lamp to the large 50 KW lamp. For ordinary commercial use sizes range from an output of 40 lumens for the six watt lamp to an output of 33,000 lumens for 1500 watt lamps.

2. This lamp incorporates within itself the means for limiting the flow of current. The filament resistance does that. No additional control devices are necessary.

3. The incandescent filament lamp starts instantly by switching directly across the line supplying the service. No special starting equipment is necessary. There is no delay in starting. The lamp may be switched on and off as frequently as necessary without shortening the life perceptibly.

4. It operates at approximately unity power factor and hence requires no power factor correcting devices.

5. It operates without perceptible flicker on 50 or 60 cycles alternating current and hence it is not necessary to use lamps in pairs with phase displacement.

6. It operates equally efficiently on alternating current or direct current.

7. Its operation may be controlled by dimmers making possible any degree of illumination from full intensity to black-out where this character of service is essential as in theatres.

8. Because it operates silently without the need of control devices, there is no problem of hum elimination nor interference with good radio reception.

9. The incandescent filament lamp has a very concentrated light producing element approaching the hypothetical point source and hence lends itself to remarkable control of light distribution by means of reflecting, diffusing and refracting media. Light can be directed in any direction in space, symmetrically, asymmetrically, widely distributed, highly concentrated. Limitations in control are few. Additionally it produces a large volume of light in "a small bundle".

10. The incandescent filament lamp produces white light and its spectrum is continuous, like that of daylight. When used in adequate quantities to give suitably high intensities this lamp produces light which serves well for practically all ordinary purposes.



PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA

PERMAFLECTOR LIGHTING

SELECTING THE REFLECTING SURFACE

	Absorption Loss
Polished silver, unprotected, new (darkens rapidly— not practical)	5%
Silver plated glass	10%
Nickel, freshly polished (tarnishes rapidly)	40%
Aluminum (varies with quality and finish)	20-40%
Stainless steel, more than	60%

From this tabulated data—the particular efficiency and adaptability of silver-plated glass is established. But it is not

sufficient to select any silver-plated glass reflector. Unless the silver-plating be properly protected, the silvered reflecting surface will gradually deteriorate, until it has no more value than aluminum, stainless steel, or other similar surfaces.

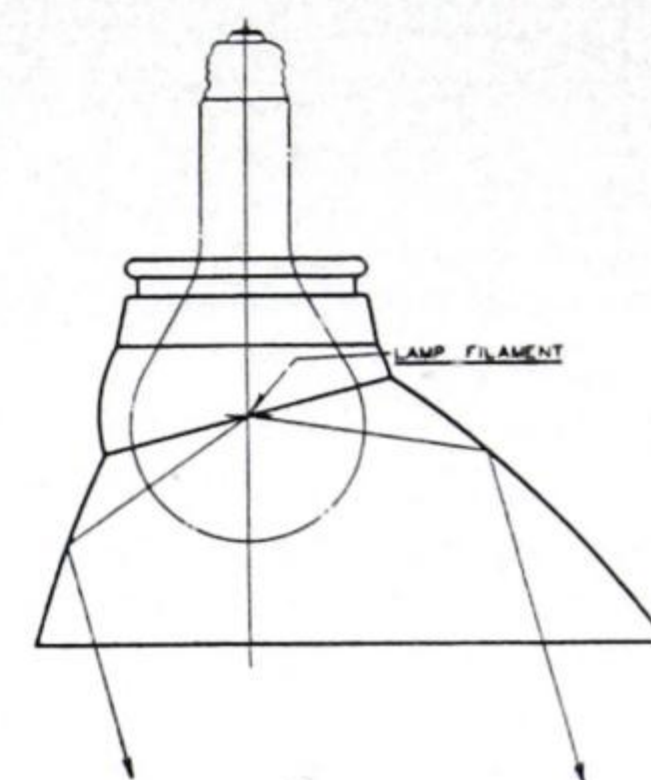
There is one silvered glass reflector which does stay bright—the reflecting surface of which does not discolor.

Permafectors stay bright—at the end of ten, fifteen, twenty-five or thirty years, you will find the reflecting surface of Permafectors just as bright, just as efficient, as when first placed in service.

PERMAFLECTOR CONTROLLED LIGHT

The specular reflecting surface of silvered glass reflectors provides astounding control of light from the searchlight beam of a floodlight reflector to the very broad distribution of the indirect reflector. The reflector picks up the maximum flux of light and puts it just where the designer wants it. Only a specular reflector can do this and only a Permafecter does it most efficiently. Asymmetric distribution, so essential for window lighting where the light must be directed downward and to the front, is accurately and efficiently possible. To the right is a sketch showing how the Permafecter picks up and reflects

the light in a concentrating asymmetric show window reflector. The reflected light is accurately placed where desired. All the light is controlled except that small amount which must needs escape through the neck and that which passes unhindered through the bottom opening. The maximum possible flux of light is controlled by the Permafecter.



PERMAFLECTOR SPECULAR REFLECTION

The most important consideration when planning illumination for any store is the problem of illuminating the merchandise so that it is displayed with maximum sales appeal. The physical characteristics of the merchandise displayed usually determine the method of illumination. In relation to this fact we wish to stress a salient quality of Permafecter Lighting called SPECULAR REFLECTION. This kind of light reflection results when the flux of the incandescent lamp mounted in the Permafecter is reflected from the silvered glass reflecting surface. Such specularly reflected rays of light reaching certain kinds of merchandise favorably affect its appearance. For example,

such articles as diamonds and other precious stones, jewelry, glassware and polished metal objects when displayed for sale should present a brilliant, sparkling, lustrous beauty. This effect can be best obtained by SPECULAR REFLECTION from direct incandescent illumination provided by efficient silvered glass reflectors — Permafecters — properly spaced and concealed. If this type of merchandise is displayed under soft, diffused sources of light such as indirect or diffused incandescent lighting or under fluorescent lighting, the desired effect can be entirely killed or noticeably deadened.

A COMPLETE LINE

The Permafecter line of silvered glass reflectors includes more than 70 designs—a correctly shaped unit for practically every need in the lighting of show windows, cove lighting, direct and indirect lighting, flood lighting and color lighting.

Various types of lighting installations require the use of special auxiliary equipment for adapting Permafecters to local architectural conditions. Therefore, there is available to you a complete line of auxiliary equipment especially designed by our engineers to permit the Permafecters to perform with

maximum efficiency. Special equipment includes luminaires, floodlights, spotlights, urns, housings for industrial and built-in equipment, roundels, color-lites, louvers, knockout strip and numerous fittings.

In addition to the Permafecter equipment for incandescent lighting, we offer a new line of structural units, fittings and fixtures for quick installation and efficient performance of the new Fluorescent Lamps.

WIDE APPLICATION

Throughout this catalog many illustrations of different types of Permafecter installations are shown. These illustrations demonstrate the wide application of Permafecters—both in lighting treatment and classes of architectural problems. In addition to those shown in this catalog there are many other types of Permafecter installations. Photographs of any particular type will be furnished by the Permafecter Representa-

tive upon request. Occasionally an unusual or entirely new lighting problem develops which requires a unit of special design. A new unit that will solve the problem with utmost efficiency is promptly designed by our engineering department. In this way the Permafecter line is continually changing and ever widening in its application.



Elder and Johnson Company, Dayton, Ohio

An entire city block of department store windows brilliantly lighted by Permafecters No's 99 Series and 555 Series.

PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA



PERMAFLECTOR LIGHTING

A 10-YEAR GUARANTEE AND A 24-YEAR RECORD

While there are guarantees and guarantees, a guarantee backed by twenty-four years of practical experience means something. When a customer purchases Permafectors, he is less interested in the assurance that a responsible manufacturer will replace the equipment if it turns out to be defective than he is in the comfort of the conviction that the product is so good that it will never have to be replaced, a conviction backed up by twenty-four years of nearly faultless production.

"We unconditionally guarantee to the original purchaser that the backing on Pittsburgh silver plated glass reflectors will not crack, check or peel, and that the silvered reflecting surface will not tarnish, for a period of ten years from date of purchase from us."

If a Permafector does not make good, we do, but from the 24-year record of almost perfection in the manufacture of silver plated glass reflectors you know that there is not one chance in ten thousand that any of the Permafectors you purchase will go bad.

USE THE PERMAFLECTOR ENGINEERING SERVICE

We want all users of Pittsburgh Permafectors to get excellent service from the Permafectors they purchase from us. A glance at the following pages of this Catalog will indicate the great variety of reflectors we have for various lighting purposes. It is too much to expect our customers to be able to select the Permafector which will do the best job for the particular lighting application. Even architects, engineers and electrical contractors may have difficulty in so doing. Having designed and produced the line, our engineers have a more thorough knowledge of the proper uses for the different items in the line.

For this reason we make the services of our engineering department available to our customers at no extra cost. When you need lighting, consult our engineering department at headquarters in Pittsburgh, or our field-representatives, all of whom have a thorough knowledge of lighting. It does not do our customers nor ourselves any good to have a customer using a Permafector for a particular purpose, where another one in the line, probably not a bit more expensive, will do a very much better job. We would rather that you would make use of this engineering service freely.

PERMAFLECTOR LIGHT DISTRIBUTION WITH ROUNDELS OR LOUVERS

This catalog is considerably more than just an enumeration of the items we manufacture. It is an engineering data book as well. The light distribution curve is shown for every Permafector and the principal size of lamp to be used therewith. If a Permafector is designed for use with more than one size of lamp, the form of the distribution curve will be substantially the same as shown but of course the candlepower values will be higher or lower in proportion to the output of the particular lamp size. For instance, if a Permafector curve is shown for that Permafector with a 500 watt lamp, when the 300 watt lamp is substituted, candlepower values will be approximately 0.6 of the values shown for the 500 watt lamp.

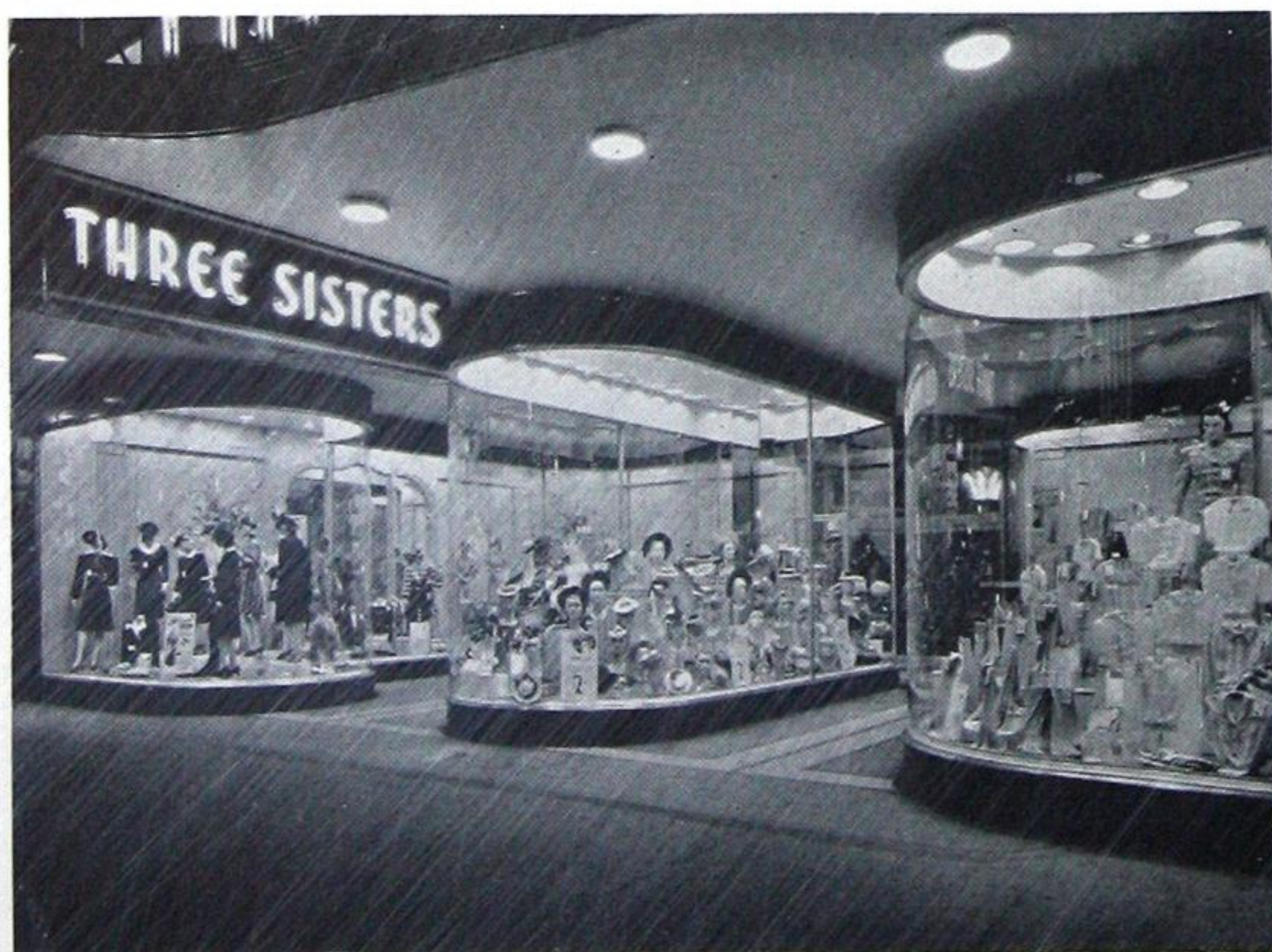
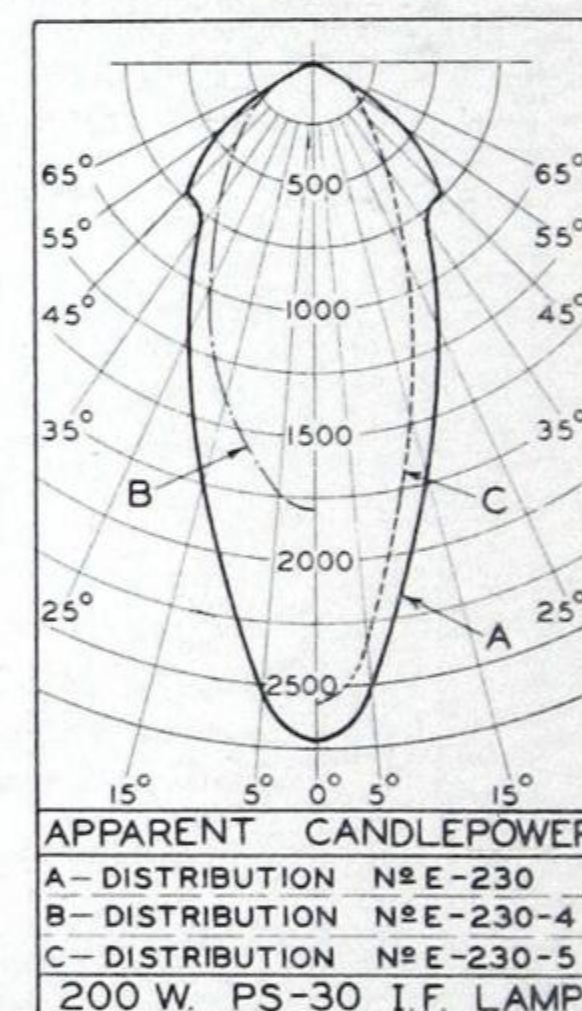
Since it is not feasible to show a light distribution curve for a Permafector, one for the same Permafector equipped with a stippled glass roundel and one for the same Permafector equipped with a louver, we explain herewith how the customer may judge the approximate distribution results when these various accessories are used.

In the illustration, Curve "A" shows the light distribution of our Permafector No. E-230 and the 200 watt PS-30, inside

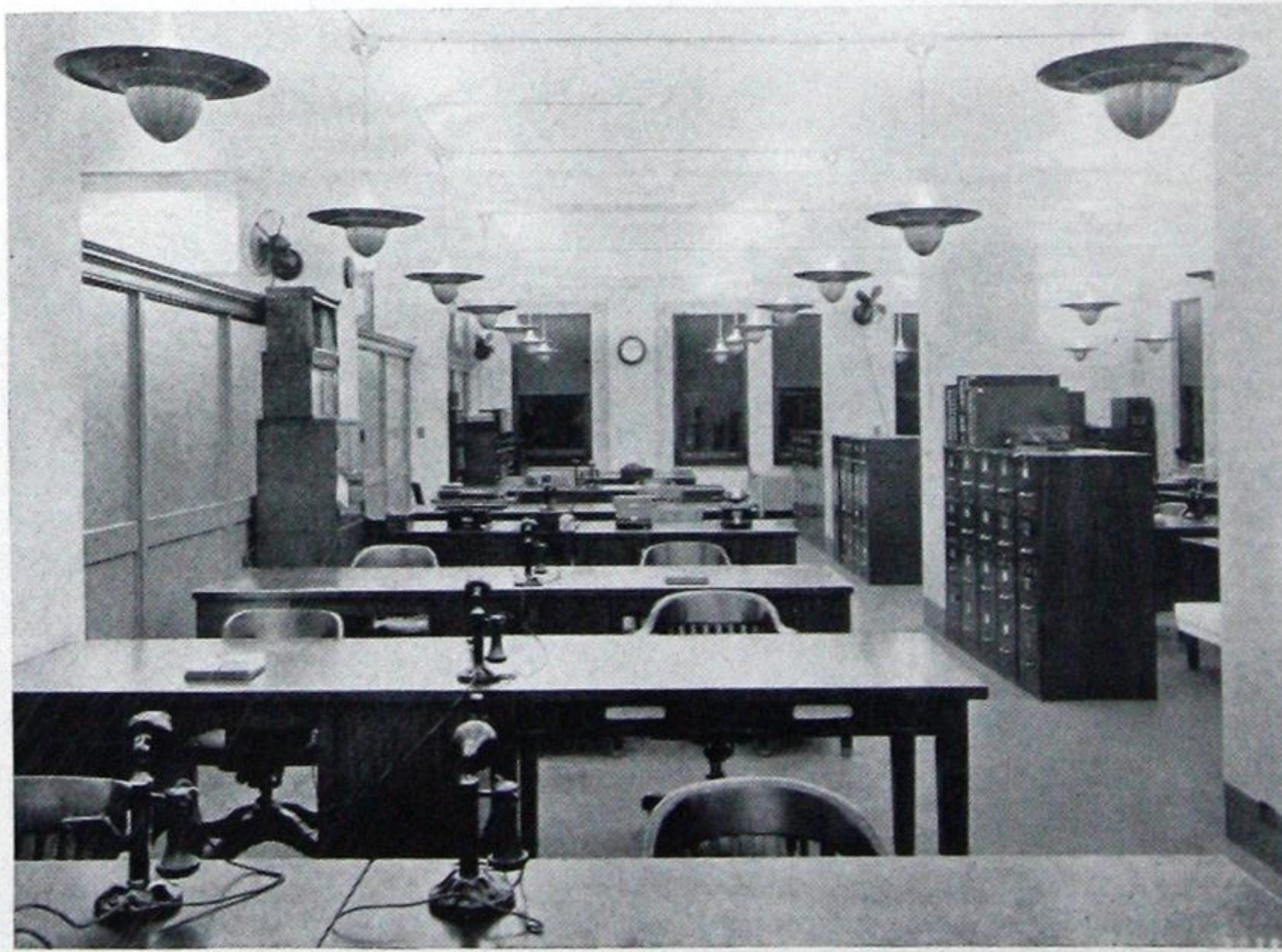
frosted lamp. Now if the stippled glass roundel as employed in Hinged Ceiling Roundel No. 6-B is added, the light distribution curve is as shown by "B". If a concentric louver as used in Hinged Concentric Louver No. 6-B be employed, Curve "C" shows the results.

Comparing Curves "A", "B", and "C", it will be noted that the concentric louver does not interfere greatly with the downward concentration from the reflector. The stippled roundel, as shown by Curve "B" broadens the distribution curve somewhat but materially reduces the concentration.

Therefore, in general, concentric louvers are to be preferred unless images of the lighting unit in polished surfaces are objectionable. In that case, the stippled roundels perform a better service at some loss in concentration.



Architects—I. M. Cohen, Gary, Indiana
J. G. Ludgin, Chicago, Illinois
Three Sisters, Inc., Chicago, Ill.



Electrical Contractor—Franklin Electric & Construction Co.,
Pittsburgh, Pa.
Duquesne Light Co., Pittsburgh, Pa.

PERMAFLECTOR SHOW WINDOW LIGHTING

TWELVE DIFFERENT UNITS

The Permaflexor line of silvered glass reflectors for show window lighting contains twelve different units — a correctly shaped unit for practically every need in the lighting of show windows of any type or size.

ACCOMMODATE EVERY SIZE OF LAMP

Permaflexor show window equipment includes an efficient reflector for use with any standard PS type lamp from 100 to 500 watts.

FOUR DISTRIBUTIONS OF LIGHT

Asymmetric distribution is essential for show windows where the light must be directed from the top and front of the window downward to the display area. Permaflexors are scientifically designed to do this more accurately and efficiently. The four general asymmetric distributions illustrated in the chart below cover the widest possible range of show window types.

MANY INSTALLATION ARRANGEMENTS

The flexibility of Permaflexor show window lighting equipment permits many different installation arrangements. Shown herewith are three of the most widely used assemblies which can be easily and quickly installed.

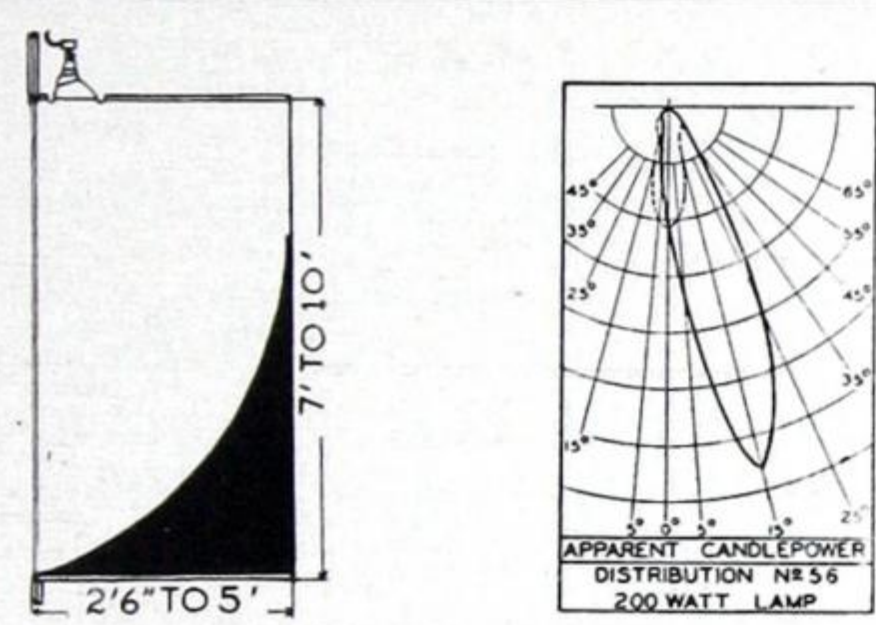
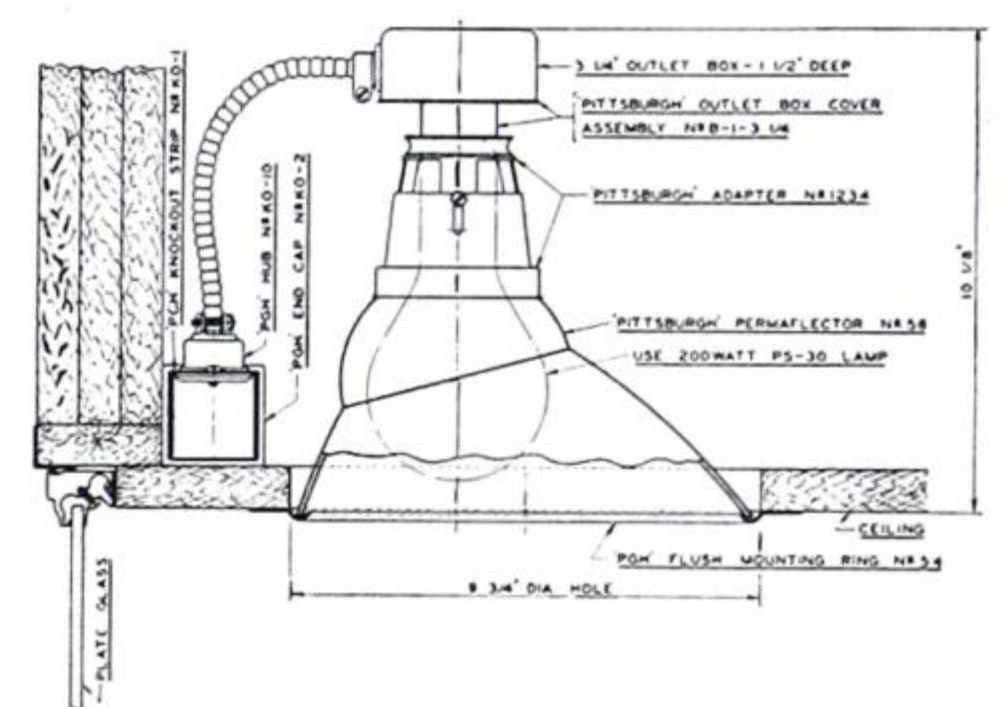
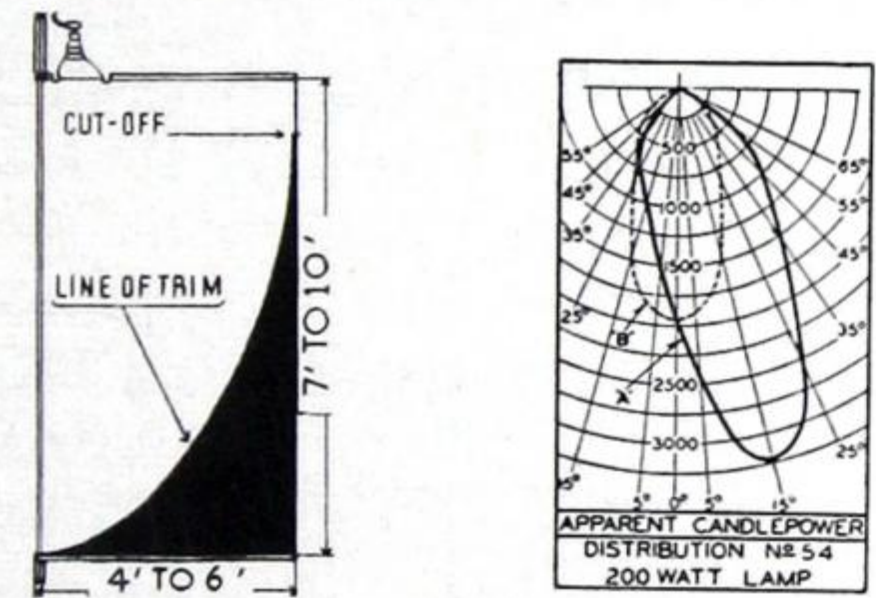
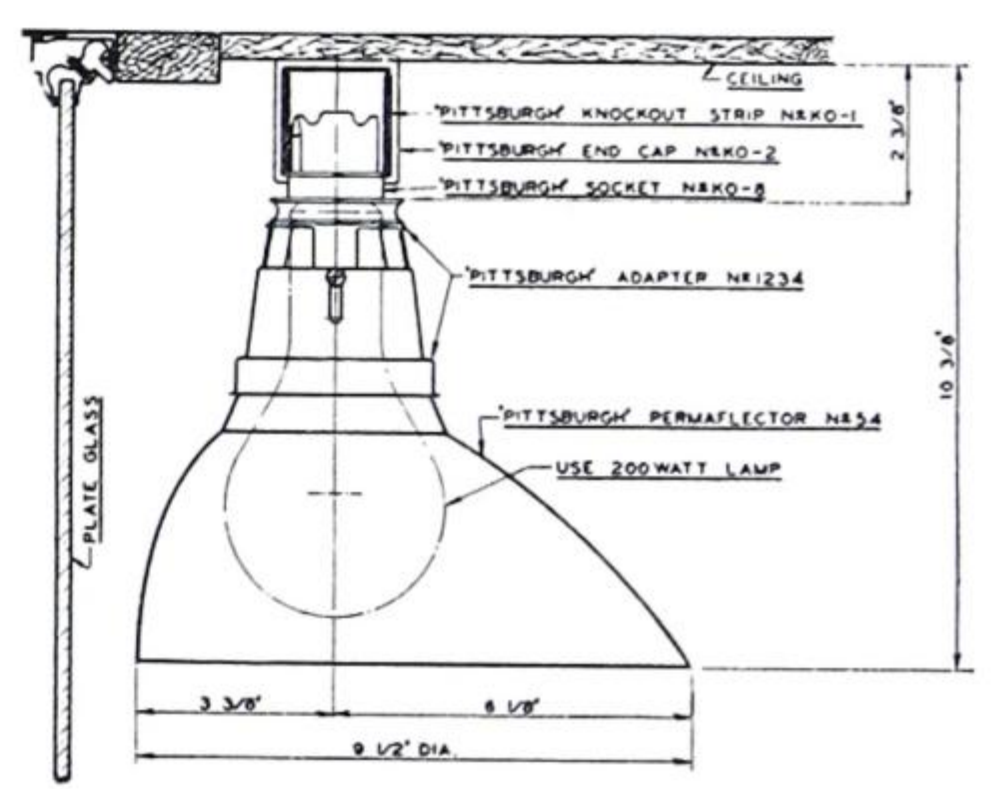
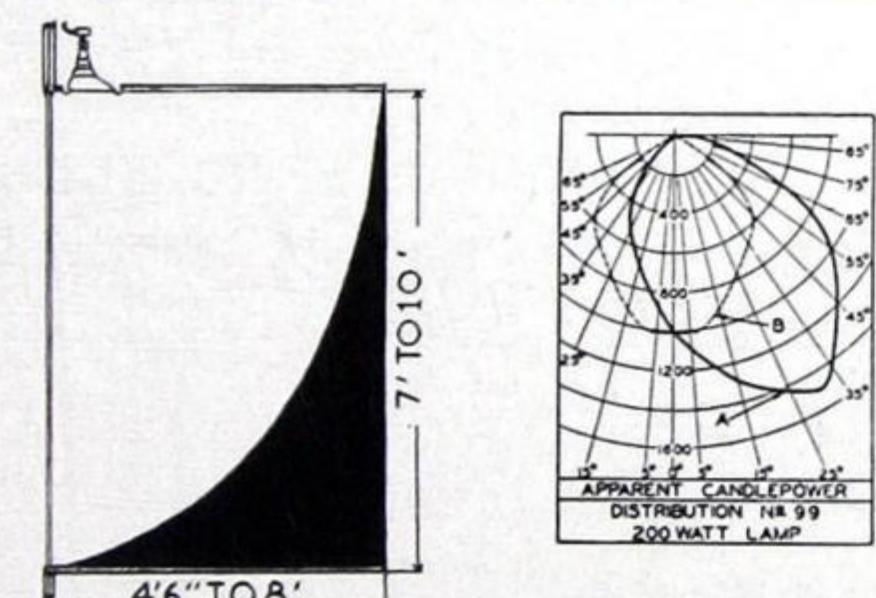
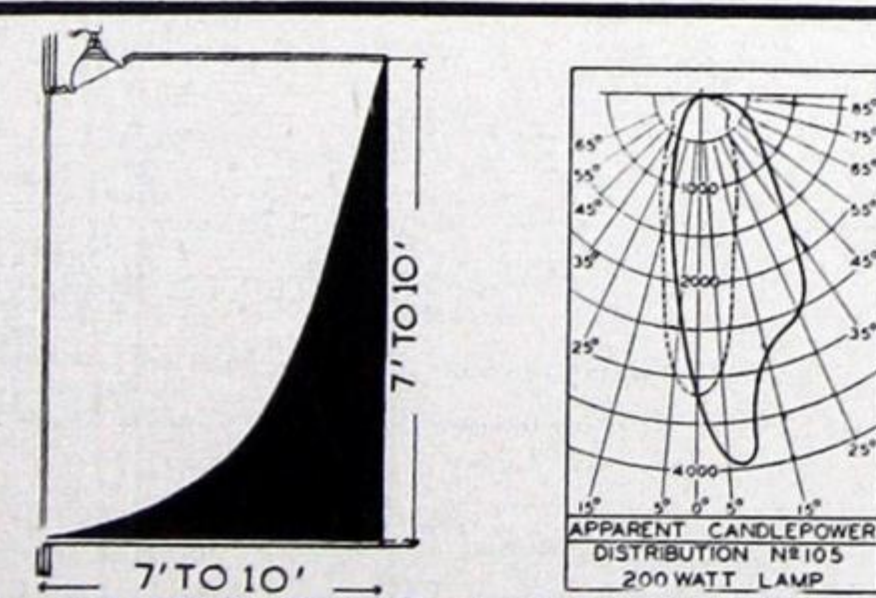
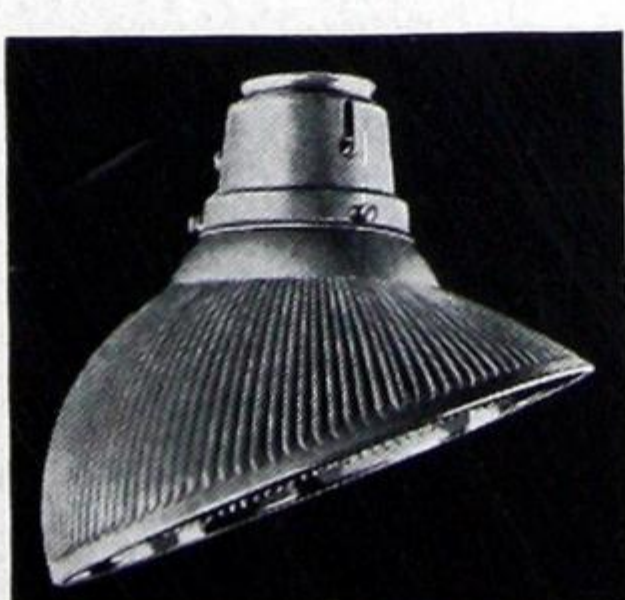
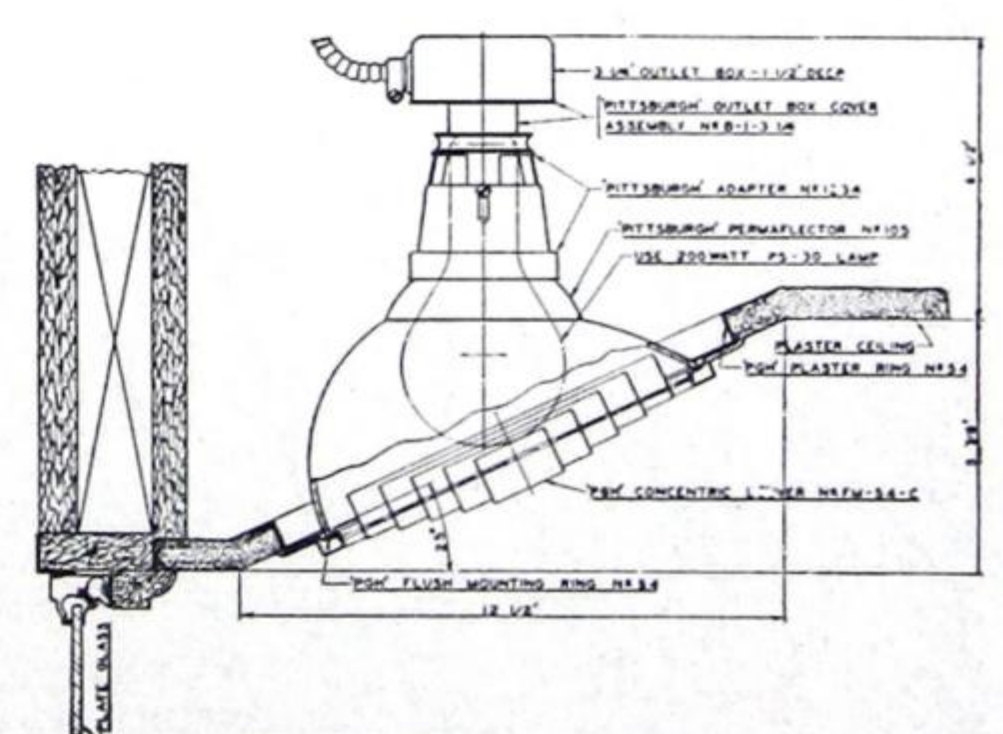
SELECTING THE CORRECT REFLECTORS

The four important factors to be considered in the selection of lighting equipment for show windows are as follows:

1. To conceal the light source and thus avoid glare,
2. Locate the lamps to illuminate the display,
3. To control the light that would ordinarily be wasted on the ceiling or sidewalks, redirecting and concentrating it on the display plane,
4. To use plenty of light, not merely for visibility, but to attract passers-by.

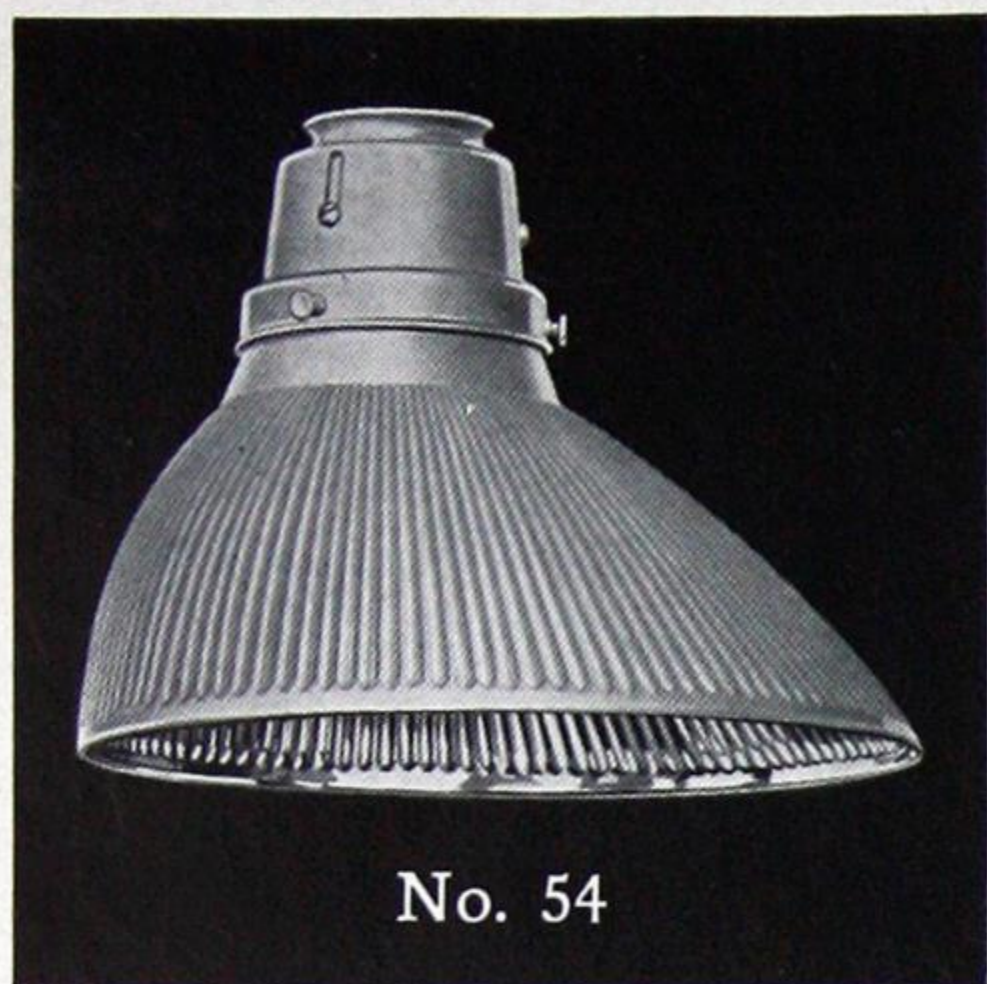
The dimensions of the window determine the type of reflector to be used. For example, shallow windows require a reflector of concentrated distribution while deep windows demand a reflector of broad distribution.

The illustrated chart shown below is designed to assist our customers in the selection of the correct Permaflexor for each type of show window.

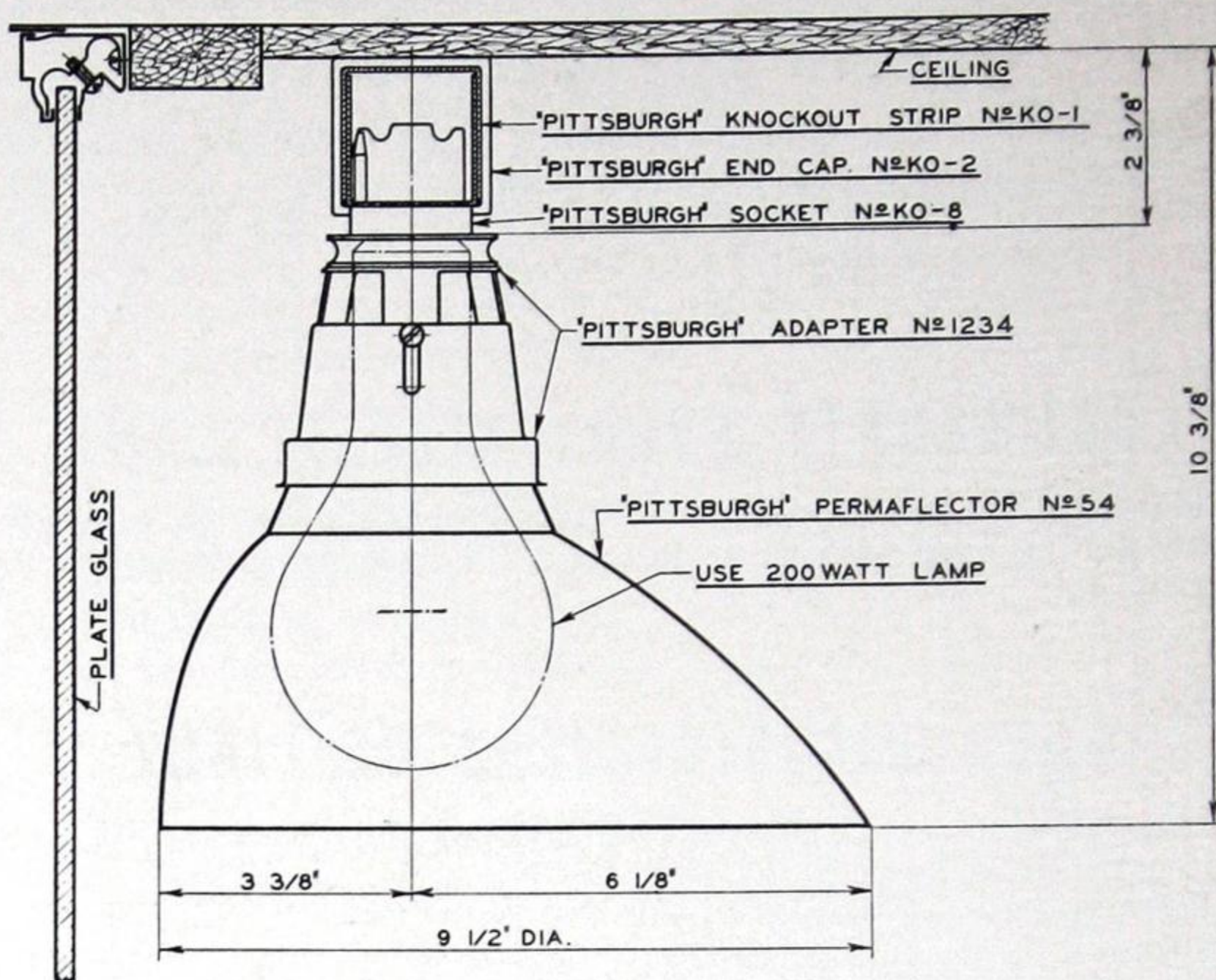
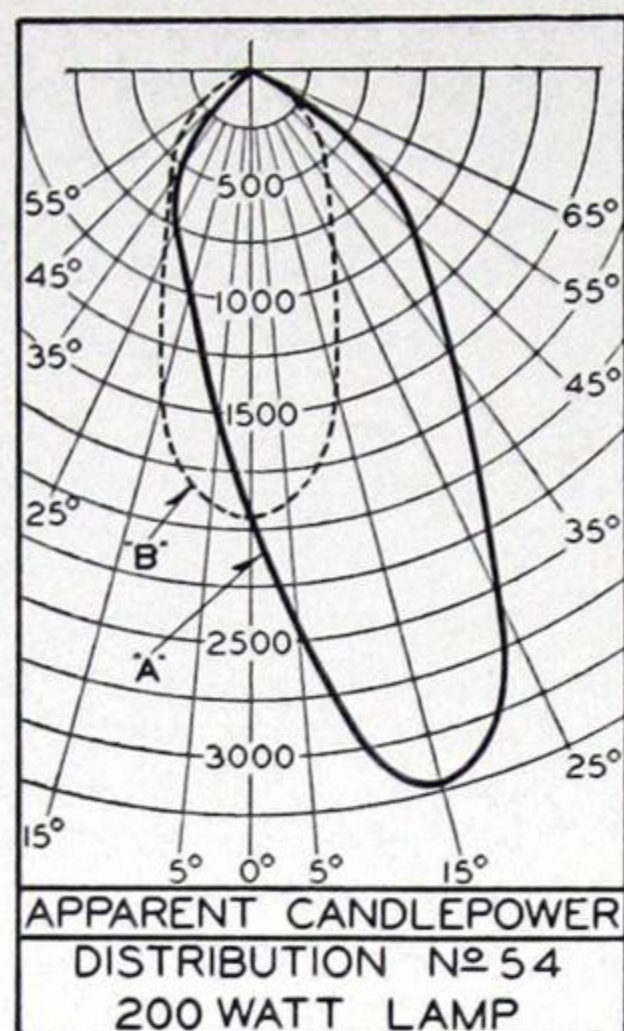
TYPE OF WINDOW AND DISTRIBUTION	PERMAFLECTORS	INSTALLATION ARRANGEMENTS
 1—INTENSE CONCENTRATION	 Permaflexor No. 56 Series.....Page 14 Permaflexor No. 57 Series.....Page 15	 No. 56—2 Recessed In Ceiling
 2—MEDIUM CONCENTRATION	 Permaflexor No. 54 Series.....Page 12 Permaflexor No. 55 Series.....Page 13 Permaflexor No. 555 Series.....Page 18 Permaflexor No. 112 Series.....Page 24	 No. 54 External Mounting
 3—BROAD DISTRIBUTION	 Permaflexor No. 77 Series.....Page 20 Permaflexor No. 85 Series.....Page 16 Permaflexor No. 99 Series.....Page 17	
 4—ANGLE TYPE—CONCENTRATION AT WINDOW LINE WITH MEDIUM DISTRIBUTION	 Permaflexor No. 105 Series.....Page 22 Permaflexor No. 110 Series.....Page 23 Permaflexor No. 500 Series.....Page 19	 No. 105—2 Recessed In Plaster Ceiling and Louvered



PERMAFLECTOR NO. 54 SERIES



No. 54



No. 54 External Mounting

PERMAFLECTOR NO. 54-R

Consists of:

Permaflector No. 54-GO and Adapter No. 1234-R for use where grooved porcelain sockets are installed.

Standard Quantity—8

Weight, Approx. 18 lbs.

Retail Price, Each.....\$4.00

CodeSHOFIFORER

Additional Equipment—for use with No. 54-R.

May be Mounted On—Conduit No. 12.

For Colored Lighting—Same as for No. 54.

For Louvered Lighting—Same as for No. 54.

PERMAFLECTOR NO. 54

Consists of:

Permaflector No. 54-GO and Adapter No. 1234.

Standard Quantity—8

Weight, Approx. 18 lbs.

Retail Price, Each.....\$4.00

CodeSHOFIFOR

Additional Equipment—for use with No. 54.

May Be Installed With:

Outlet Box Cover Assembly No. B-1-3/4 or B-1-4.

May Be Mounted On:

Conduit No. 1 or Knockout Strip No. KO-1.

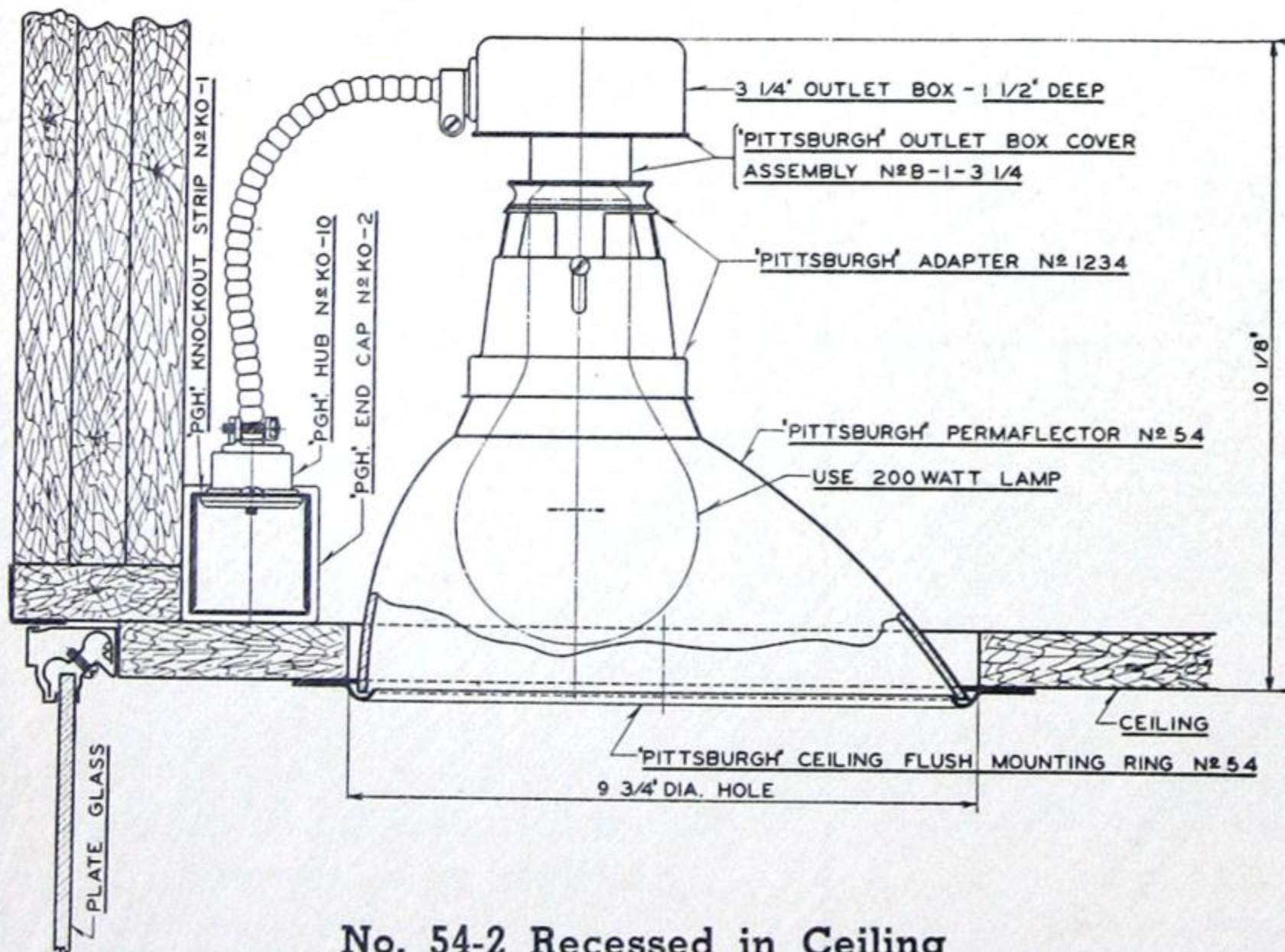
For Colored Lighting: Use

Color-Lite No. 2 or No. 2-DB for external mounting.

For Louvered Lighting: Use

Parallel Louver No. EM-54 for external mounting.

Eccentric Louver No. EM-99-CA for external mounting.



No. 54-2 Recessed in Ceiling

COMBINATION NO. 54-2

(For Recessed Installation)

Consists of:

Permaflector No. 54.

Outlet Box Cover Assembly No. B-1-3/4.

Flush Mounting Ring No. 54.

Standard Quantity—8

Weight, Approx. 26 lbs.

Retail Price, Each.....\$4.95

CodeFIFOTU

Ceiling Space Required:

Space Above Ceiling Line—10 1/8 inches (Adapter Extended).

Opening to be Cut in Ceiling, Circular—Diam., 9 3/4 inches.

Additional Equipment—for use with No. 54-2.

For Plaster Ceiling—Use Plaster Ring No. 54.

For Colored Lighting—Use Color-Lite No. 21 or No. 21-DB.

For Ceiling Roundel (Not Hinged)—Use Ceiling Roundel No. 21 with or without Wire Guard No. WG-6.

For Louvered Lighting—Use

Parallel Louver No. FM-54.

Eccentric Louver No. FM-99-CA.

COMBINATION NO. 54-4

(Hinged Ceiling Roundel Installation)

Consists of:

Permaflector No. 54.

Outlet Box Cover Assembly No. B-1-3/4.

Hinged Ceiling Roundel No. 6-B.

Standard Quantity—8

Weight, Approx. 45 lbs.

Retail Price, Each.....\$9.05

CodeFIFOFO

Ceiling Space Required:

Space Above Ceiling Line—10 1/2 inches (Adapter Extended).

Opening to be Cut in Ceiling, Circular—Diam., 10 3/4 inches.

Additional Equipment—for use with No. 54-4.

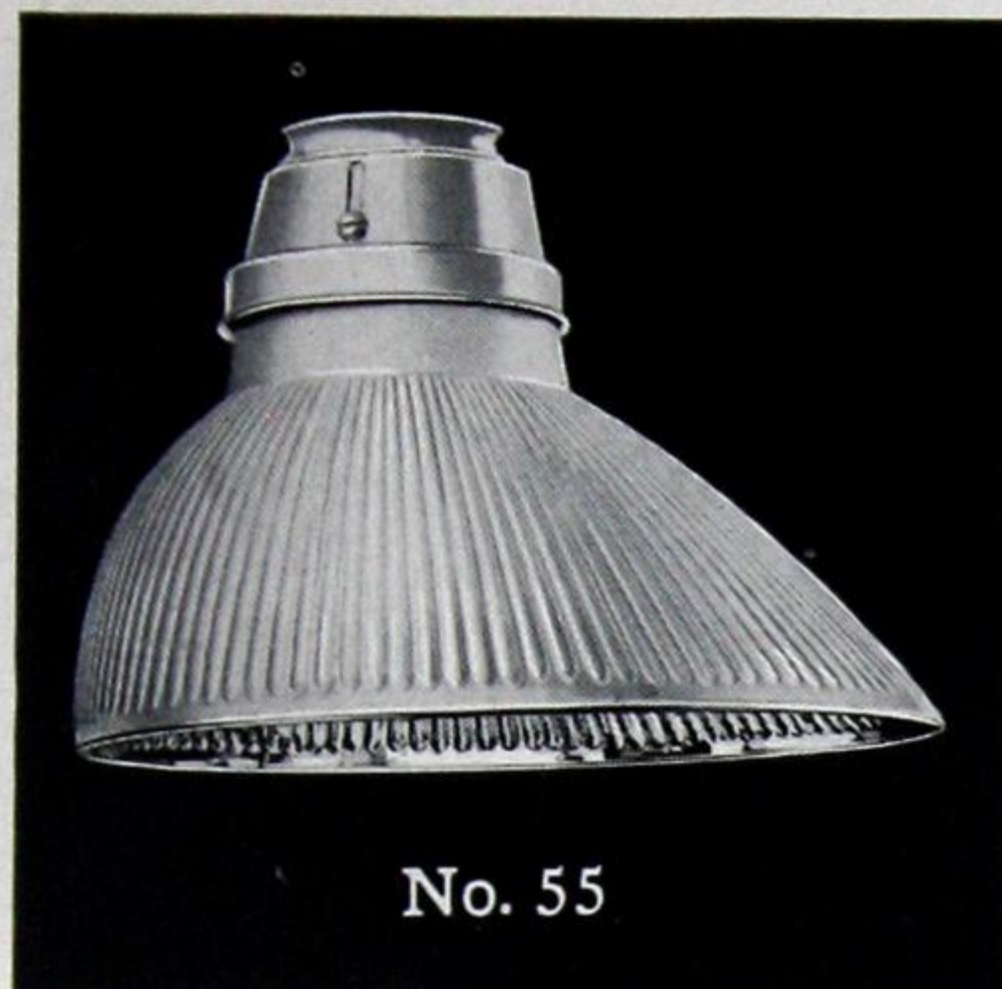
For Plaster Ceiling—Use Plaster Ring No. 6-B.

For Protection of Roundel—Use Wire Guard No. WG-6.

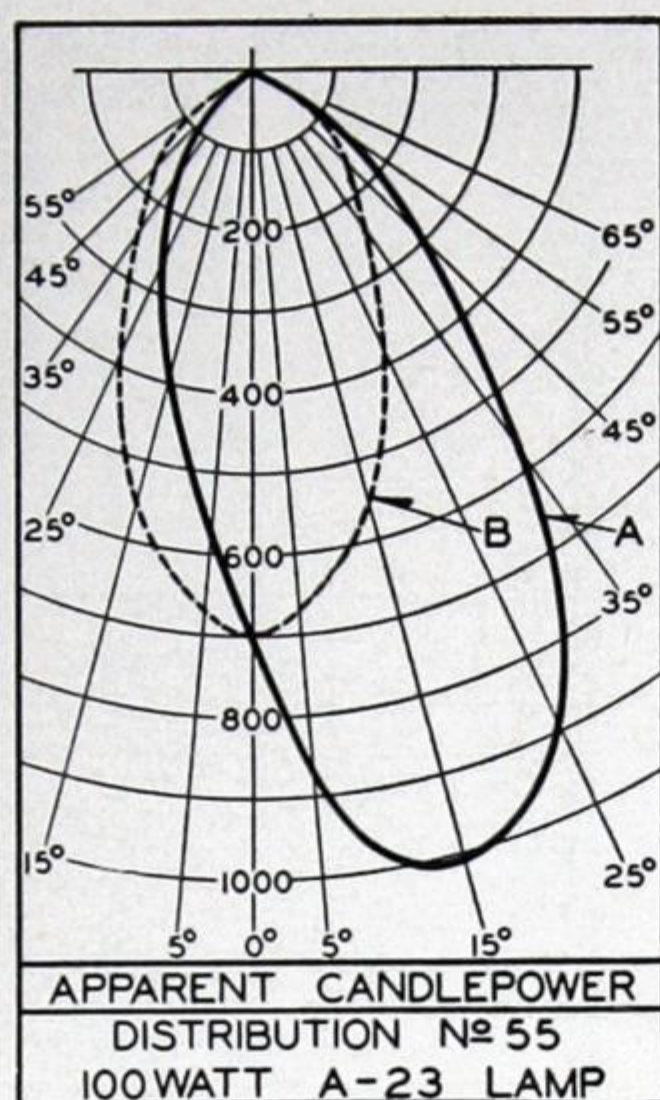


PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA

PERMAFLECTOR NO. 55 SERIES



No. 55



Application—Primarily for shallow windows, 4 to 9 feet high; medium trim; island windows; or windows with upper portion of background of glass. Also excellent for other display lighting such as rug racks, quotation boards, building fronts and entrances; choirs and sanctuaries of churches, handball, squash, indoor badminton or tennis courts; art galleries and museums and indirect cove lighting.

Minimum Spacings: for
Mounting on Conduit No. 1 or No. 12—9 inches on centers.
Mounting on Knockout Strip No. KO-1—9 inches on centers.

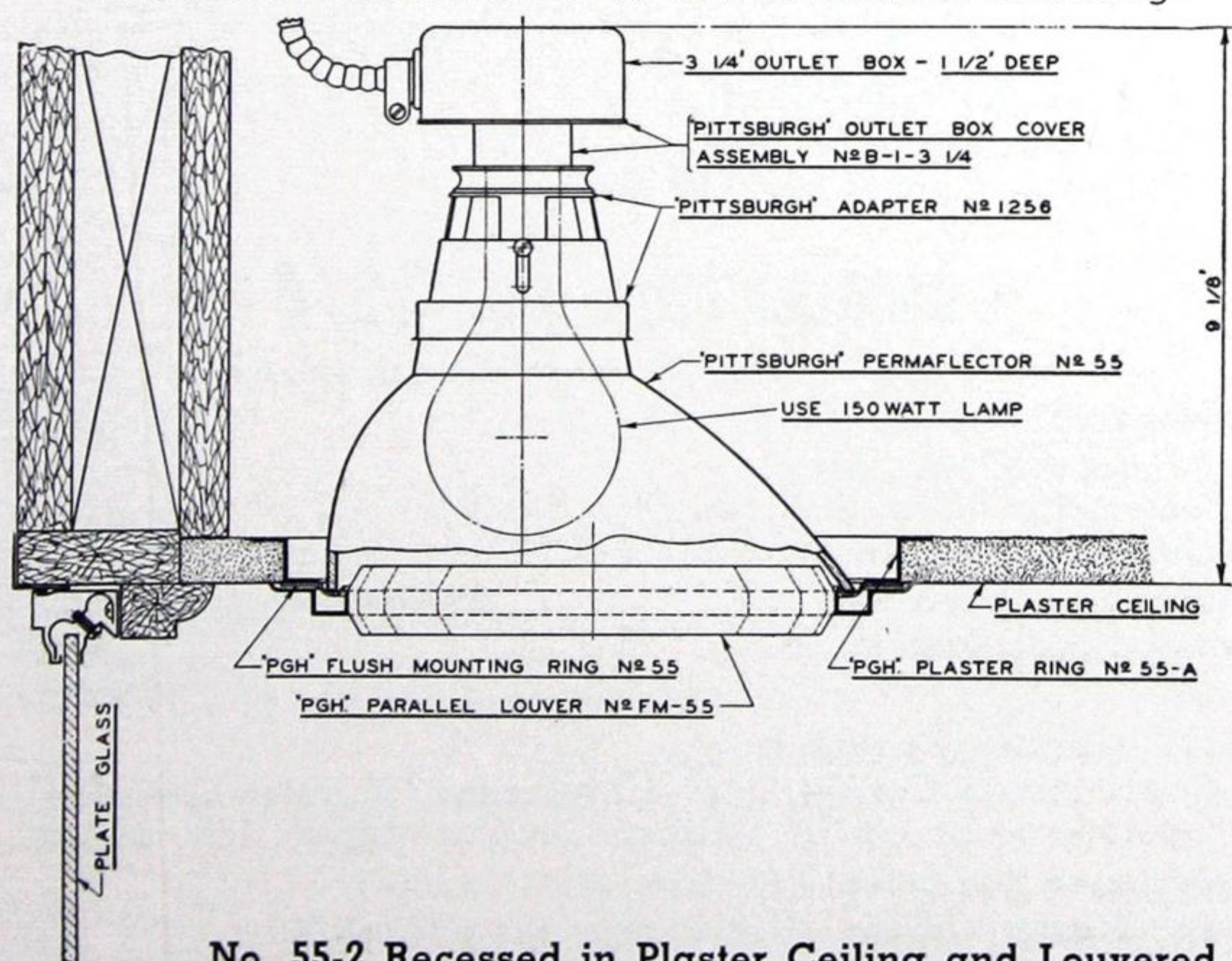
Dimensions:
Height with Adapter No. 1256 Extended—6 $\frac{7}{8}$ inches.
Height with Adapter No. 1256 Compressed—6 $\frac{3}{8}$ inches.
Height Permaflector No. 55-GO—4 $\frac{1}{8}$ inches.
Bottom Opening Circular—Diameter, 8 $\frac{1}{2}$ inches.

Lamp Size—
100 watt A-23, Adapter in compressed position.
150 watt A-25, Adapter in extended position.

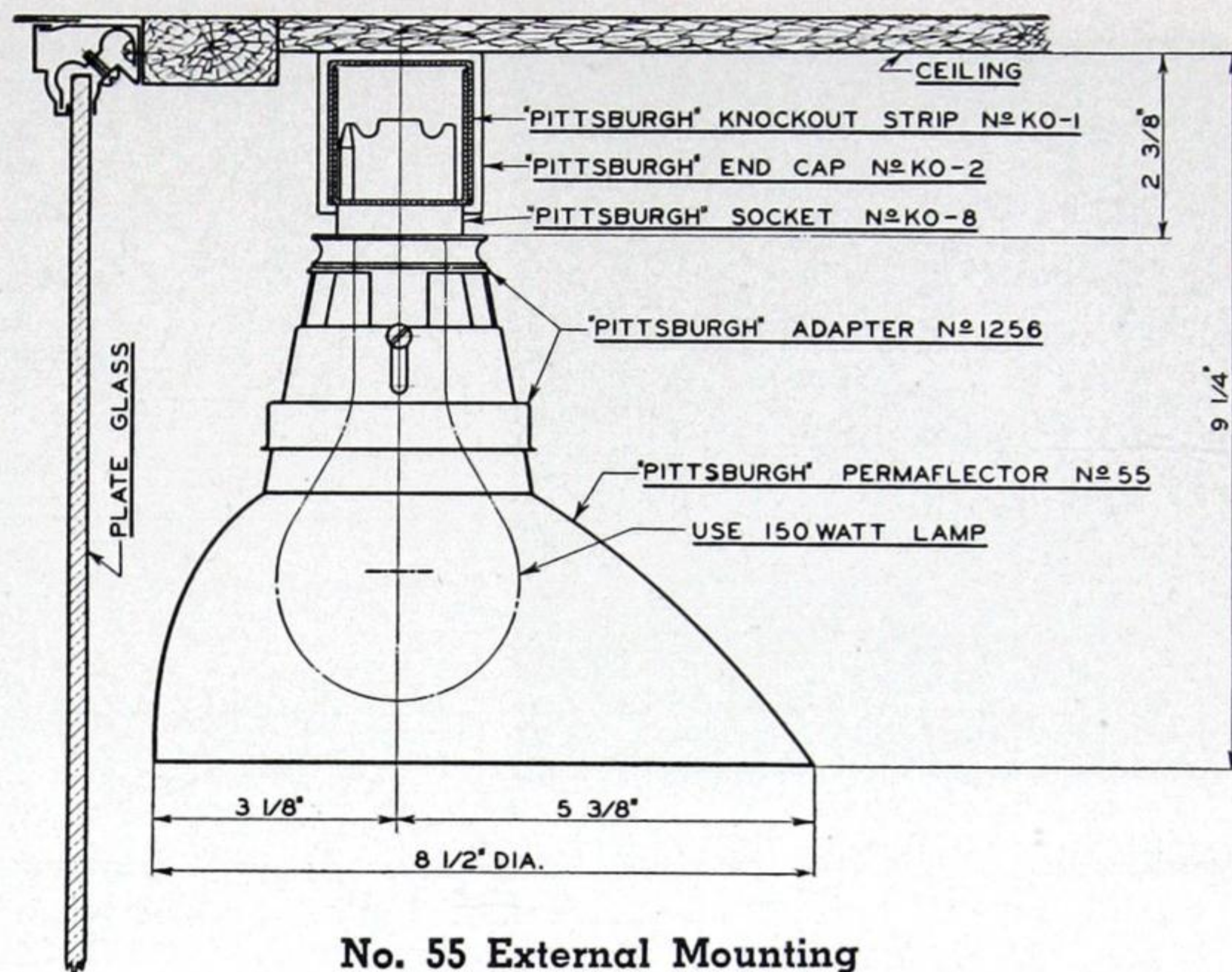
PERMAFLECTOR NO. 55

Consists of:
Permaflector No. 55-GO and Adapter No. 1256.
Standard Quantity—10 **Weight, Approx. 18 lbs.**
Retail Price, Each.....\$3.50
CodeSHOFIFI

Additional Equipment—for use with No. 55.
May Be Installed With:
Outlet Box Cover Assembly No. B-1-3 $\frac{1}{4}$ or B-1-4.
May Be Mounted On:
Conduit No. 1 or Knockout Strip No. KO-1.
For Colored Lighting: Use
Color-Lite No. 6 or No. 6-DB for external mounting.
For Louvered Lighting: Use
Parallel Louver No. EM-55 for external mounting.
Eccentric Louver No. EM-88-CA for external mounting.



No. 55-2 Recessed in Plaster Ceiling and Louvered



No. 55 External Mounting

PERMAFLECTOR NO. 55-R

Consists of:
Permaflector No. 55-GO and Adapter No. 1256-R for use where grooved porcelain sockets are installed.

Standard Quantity—10 **Weight, Approx. 18 lbs.**
Retail Price, Each.....\$3.50
CodeSHOFIFIR

Additional Equipment—for use with No. 55-R.
May Be Mounted On—Conduit No. 12.
For Colored Lighting—Same as for No. 55.
For Louvered Lighting—Same as for No. 55.

COMBINATION NO. 55-2

(For Recessed Installation)

Consists of:
Permaflector No. 55.
Outlet Box Cover Assembly No. B-1-3 $\frac{1}{4}$.
Flush Mounting Ring No. 55.
Standard Quantity—10 **Weight, Approx. 25 lbs.**
Retail Price, Each.....\$4.37
CodeFIFITU

Ceiling Space Required:
Space Above Ceiling Line—9 $\frac{1}{8}$ inches (Adapter Extended).
Opening to be Cut in Ceiling, Circular—Diam., 8 $\frac{3}{4}$ inches.

Additional Equipment—for use with No. 55-2.
For Plaster Ceiling—Use Plaster Ring No. 55-A.
For Colored Lighting—Use Color-Lite No. 61 or No. 61-DB.
For Ceiling Roundel (Not Hinged)—Use Ceiling Roundel No. 62 with or without Wire Guard No. WG-1.
For Louvered Lighting—Use
Parallel Louver No. FM-55.
Eccentric Louver No. FM-88-CA.

COMBINATION NO. 55-4

(Hinged Ceiling Roundel Installation)

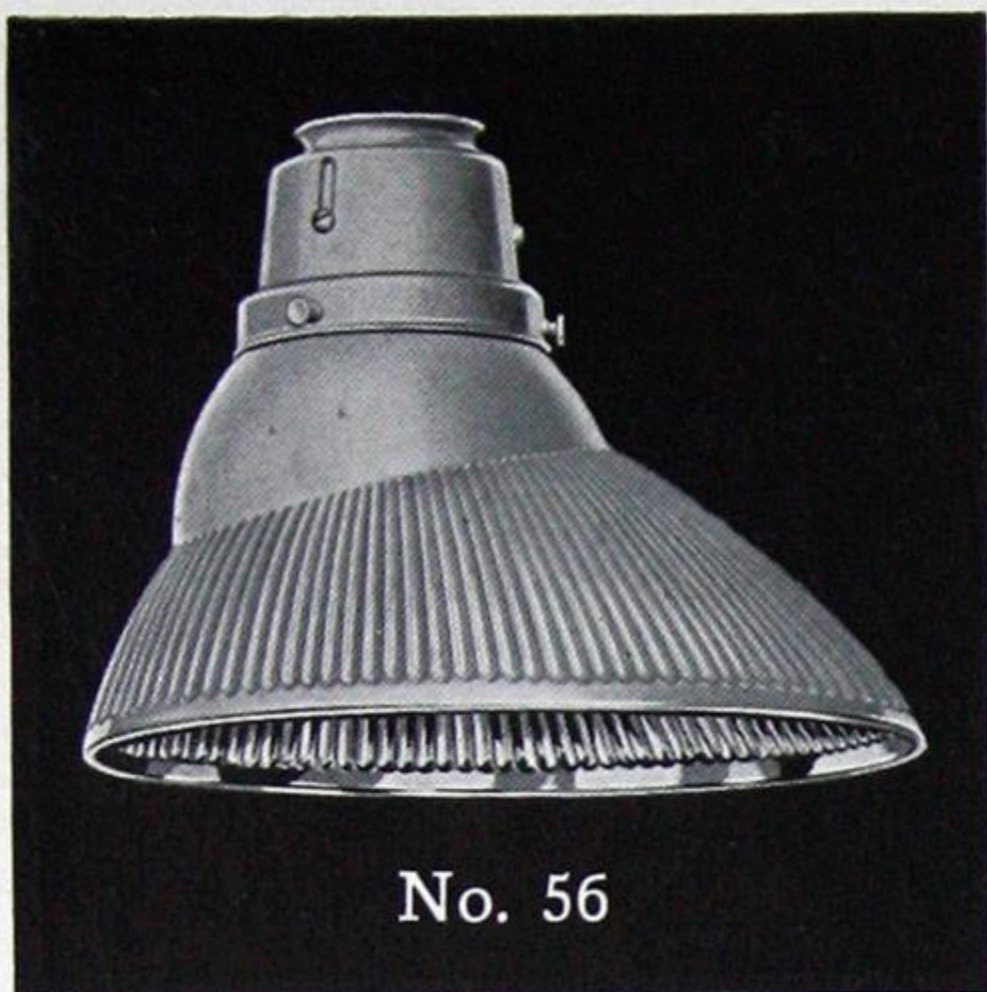
Consists of:
Permaflector No. 55.
Outlet Box Cover Assembly No. B-1-3 $\frac{1}{4}$.
Hinged Ceiling Roundel No. 1-B.
Standard Quantity—10 **Weight, Approx. 45 lbs.**
Retail Price, Each.....\$7.70
CodeFIFIFO

Ceiling Space Required:
Space Above Ceiling Line—9 $\frac{1}{2}$ inches (Adapter Extended).
Opening to be Cut in Ceiling, Circular—Diam., 9 $\frac{3}{4}$ inches.

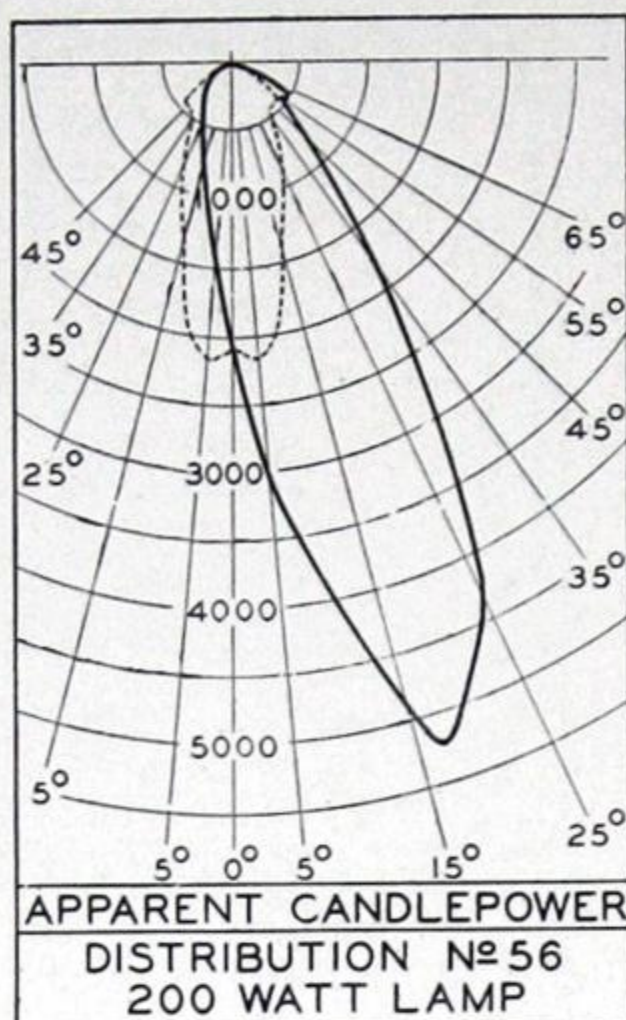
Additional Equipment—for use with No. 55-4.
For Plaster Ceiling—Use Plaster Ring No. 1-B.
For Protection of Roundel—Use Wire Guard No. WG-1.



PERMAFLECTOR NO. 56 SERIES



No. 56



Application—Primarily for high and very shallow windows, height from two to three times the depth, or windows in which the display is placed low in the window, as for instance jewelry and shoe windows. Excellent for narrow island windows installed around the four sides thereof. Also good for other display lighting service such as rug racks, quotation boards, building fronts and entrances; choirs and sanctuaries of churches; handball, squash, indoor badminton or tennis courts; art galleries and museums; and indirect cove lighting.

Minimum Spacings: for

Mounting on Conduit No. 1 or No. 12—10½ inches on centers.
Mounting on Knockout Strip No. KO-1—12 inches on centers.

Dimensions:

Height with Adapter No. 1234 Extended—8 inches.
Height with Adapter No. 1234 Compressed—7 1/8 inches.
Height Permaflector No. 54-GO—5¼ inches.
Bottom Opening Circular—Diameter, 9½ inches.

Lamp Size—

150 watt A-25, Adapter in compressed position.
200 watt PS-30, Adapter in extended position.

PERMAFLECTOR NO. 56

Consists of:

Permaflector No. 56-GO and Adapter No. 1234.

Standard Quantity—8

Weight, Approx. 18 lbs.

Retail Price, Each

\$4.00

Code

SHOFISIX

Additional Equipment—for use with No. 56.

May Be Installed With:

Outlet Box Cover Assembly No. B-1-3¼ or B-1-4.

May Be Mounted On:

Conduit No. 1 or Knockout Strip No. KO-1.

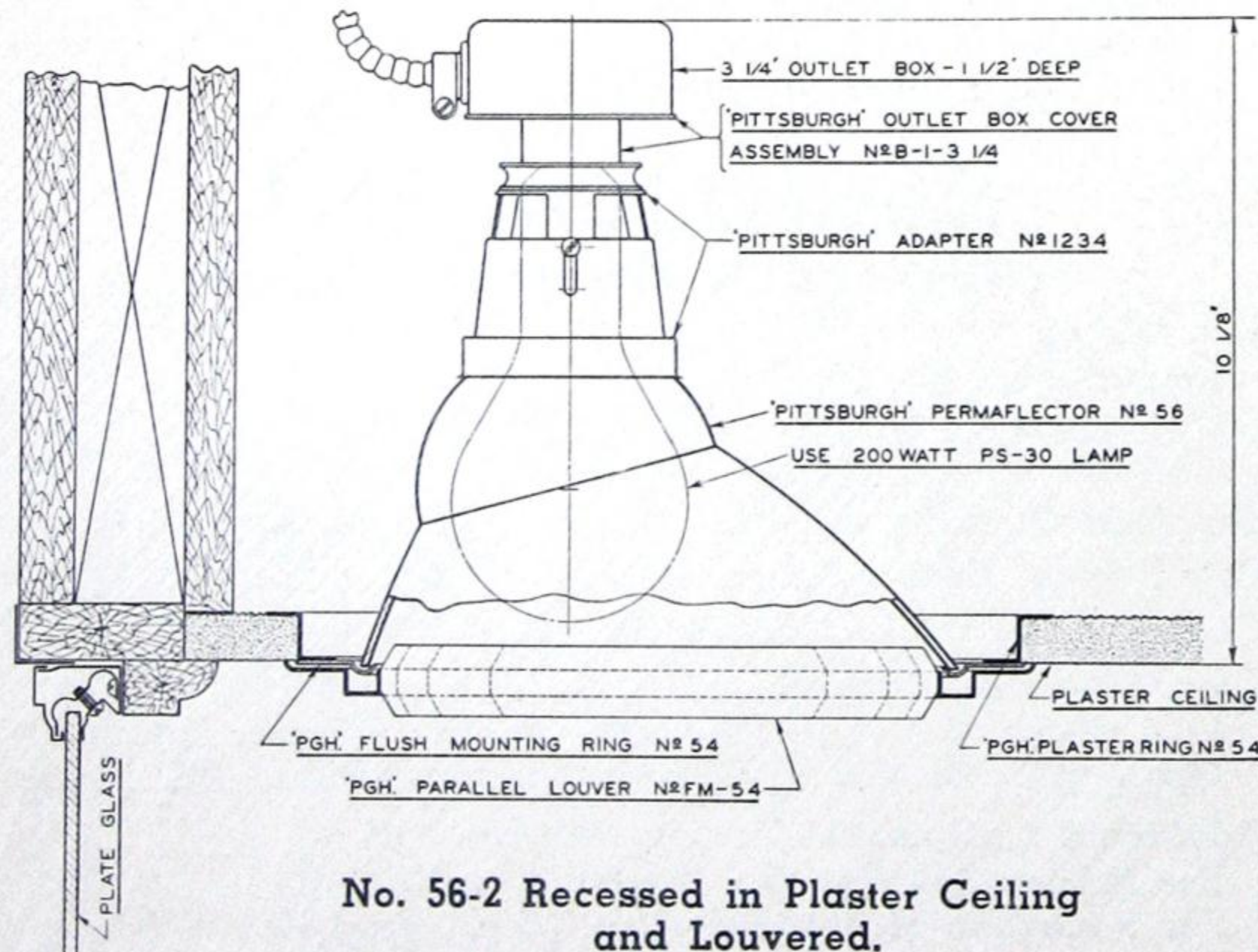
For Colored Lighting: Use

Color-Lite No. 2 or No. 2-DB for external mounting.

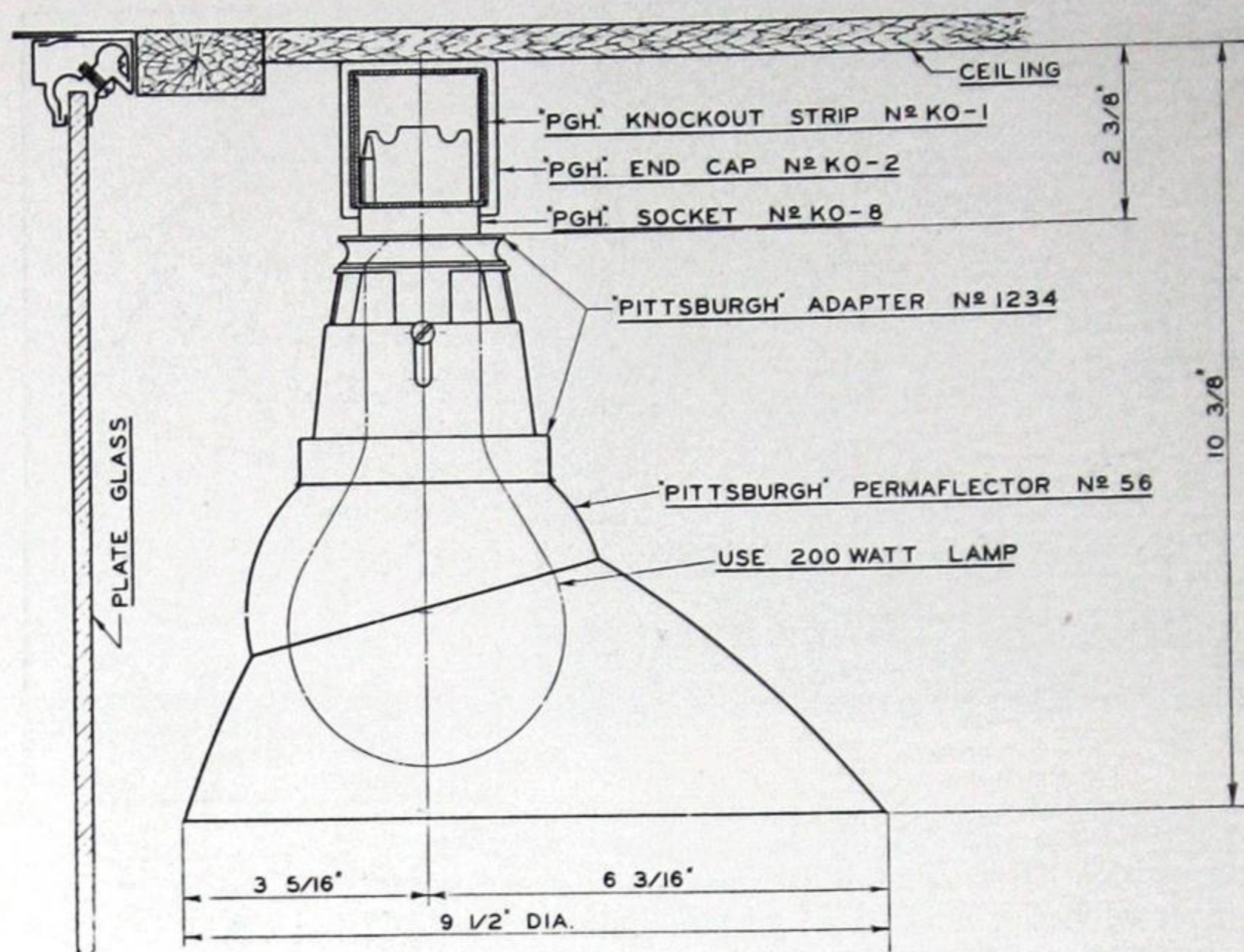
For Louvered Lighting: Use

Parallel Louver No. EM-54 for external mounting.

Eccentric Louver No. EM-99-CA for external mounting.



No. 56-2 Recessed in Plaster Ceiling and Louvered.



No. 56 External Mounting

PERMAFLECTOR NO. 56-R

Consists of:

Permaflector No. 56-GO and Adapter No. 1234-R for use where grooved porcelain sockets are installed.

Standard Quantity—8

Weight, Approx. 18 lbs.

Retail Price, Each

\$4.00

Code

SHOFISIXER

Additional Equipment—for use with No. 56-R.

May Be Mounted On—Conduit No. 12.

For Colored Lighting—Same as for No. 56.

For Louvered Lighting—Same as for No. 56.

COMBINATION NO. 56-2

(For Recessed Installation)

Consists of:

Permaflector No. 56.

Outlet Box Cover Assembly No. B-1-3¼.

Flush Mounting Ring No. 54.

Standard Quantity—8

Weight, Approx. 26 lbs.

Retail Price, Each

\$4.95

Code

FISIKTU

Ceiling Space Required:

Space Above Ceiling Line—10½ inches (Adapter Extended).

Opening to be Cut in Ceiling, Circular—Diam., 9¾ inches.

Additional Equipment—for use with No. 56-2.

For Plaster Ceiling—Use Plaster Ring No. 54.

For Colored Lighting—Use Color-Lite No. 21 or No. 21-DB.

For Ceiling Roundel (Not Hinged)—Use Ceiling Roundel No. 21 with or without Wire Guard No. WG-6.

For Louvered Lighting—Use

Parallel Louver No. FM-54.

Eccentric Louver No. FM-99-CA.

COMBINATION NO. 56-4

(Hinged Ceiling Roundel Installation)

Consists of:

Permaflector No. 56.

Outlet Box Cover Assembly No. B-1-3¼.

Hinged Ceiling Roundel No. 6-B.

Standard Quantity—8

Weight, Approx. 44 lbs.

Retail Price, Each

\$9.05

Code

FISIKFO

Ceiling Space Required:

Space Above Ceiling Line—10½ inches (Adapter Extended).

Opening to be Cut in Ceiling, Circular—Diam., 10¾ inches.

Additional Equipment—for use with No. 56-4.

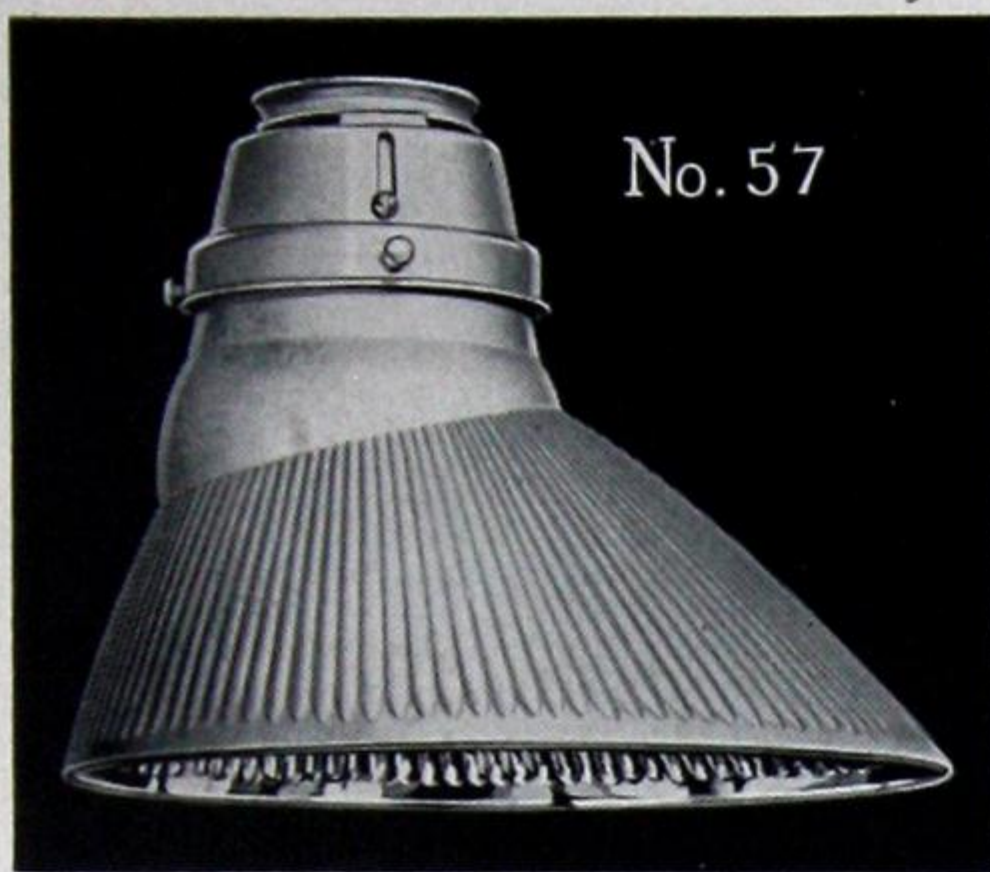
For Plaster Ceiling—Use Plaster Ring No. 6-B.

For Protection of Roundel—Use Wire Guard No. WG-6.



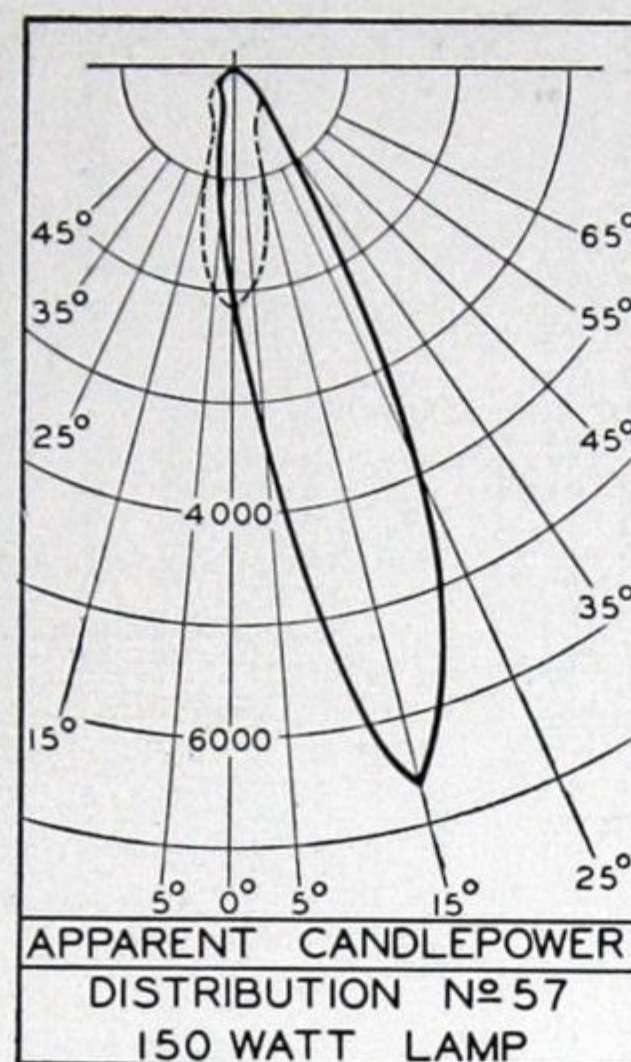
PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA

PERMAFLECTOR NO. 57 SERIES



No. 57

An Asymmetric Spot Reflector.



Application—Primarily for high and very shallow windows, height from two to three times the depth, or windows in which the display is placed low in the window as for instance jewelry and shoe windows. Excellent for narrow island windows installed around the four sides thereof. Also good for other display lighting service and indirect cove lighting.

Minimum Spacings: for

Mounting on Conduit No. 1 or No. 12—9 inches on centers.
Mounting on Knockout Strip No. KO-1—9 inches on centers.

Dimensions—

Height with Adapter No. 1256 Extended—7½ inches.
Height with Adapter No. 1256 Compressed—6¼ inches.
Height Permaflector No. 57-GO—5⅓ inches.
Bottom Opening Circular—Diameter, 8½ inches.

Lamp Size—

100 watt A-23, Adapter in compressed position.
150 watt A-25, Adapter in extended position.

PERMAFLECTOR NO. 57

Consists of:

Permaflector No. 57-GO and Adapter No. 1256.

Standard Quantity—10

Weight, Approx. 17 lbs.

Retail Price, Each\$3.50

CodeSHOFISEV

Additional Equipment—for use with No. 57.

May Be Installed With:

Outlet Box Cover Assembly No. B-1-3¼ or B-1-4.

May Be Mounted On:

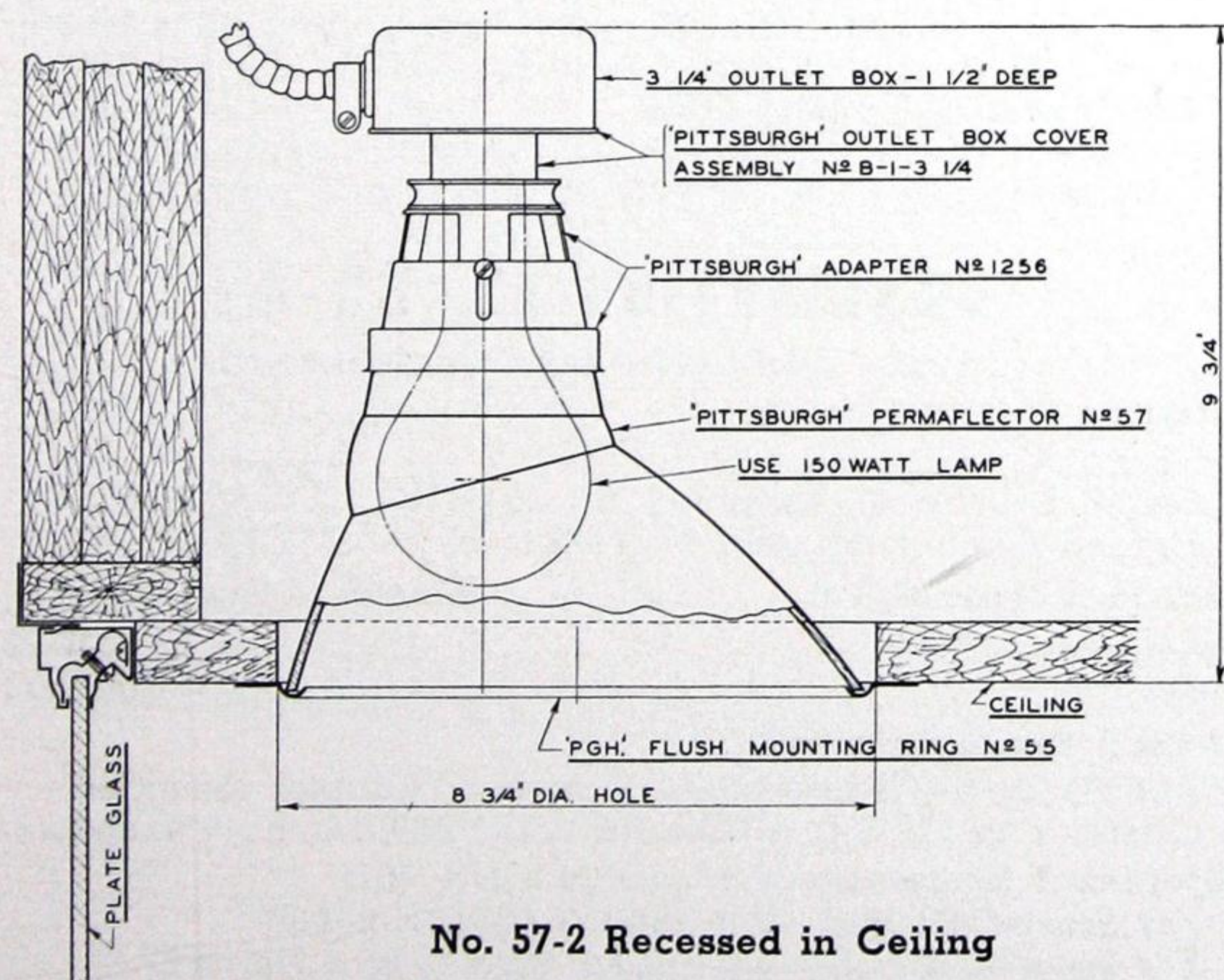
Conduit No. 1 or Knockout Strip No. KO-1.

For Colored Lighting: Use

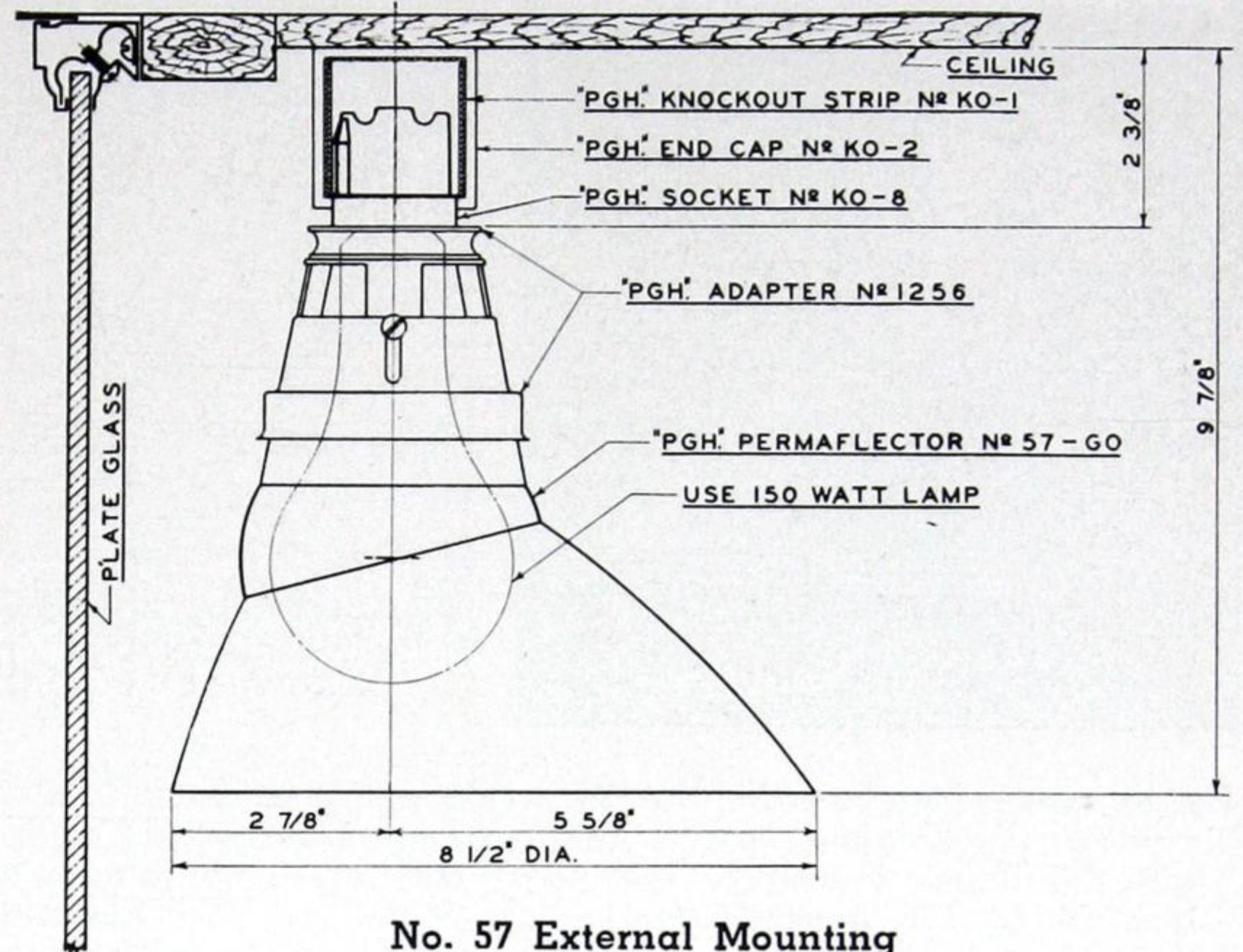
Color-Lite—No. 6 or No. 6-DB for external mounting.

For Louvered Lighting: Use

Parallel Louver—No. EM-55 for external mounting.
Eccentric Louver—No. EM-88-CA for external mounting.



No. 57-2 Recessed in Ceiling



No. 57 External Mounting

PERMAFLECTOR NO. 57-R

Consists of:

Permaflector No. 57-GO and Adapter No. 1256-R for use where grooved porcelain sockets are installed.

Standard Quantity—10

Weight, Approx. 17 lbs.

Retail Price, Each\$3.50

CodeSHOFISEVER

Additional Equipment—for use with No. 57-R.

May Be Mounted On—Conduit No. 12.

For Colored Lighting—Same as for No. 57.

For Louvered Lighting—Same as for No. 57.

COMBINATION NO. 57-2

(For Recessed Installation)

Consists of:

Permaflector No. 57.

Outlet Box Cover Assembly No. B-1-3¼.

Flush Mounting Ring No. 55.

Standard Quantity—10

Weight, Approx. 24 lbs.

Retail Price, Each\$4.37

CodeFISETU

Ceiling Space Required:

Space Above Ceiling Line—9¾ inches. (Adapter Extended)
Opening to be Cut in Ceiling, Circular—Diam., 8¾ inches.

Additional Equipment—for use with No. 57-2.

For Plaster Ceiling—Use Plaster Ring No. 55-A.

For Colored Lighting—Use Color-Lite No. 61 or No. 61-DB.

For Ceiling Roundel (Not Hinged)—Use Ceiling Roundel No. 62 with or without Wire Guard No. WG-1.

For Louvered Lighting: Use

Parallel Louver—No. FM-55.

Eccentric Louver—No. FM-88-CA.

COMBINATION NO. 57-4

(Hinged Ceiling Roundel Installation)

Consists of:

Permaflector No. 57.

Outlet Box Cover Assembly No. B-1-3¼.

Hinged Ceiling Roundel No. 1-B.

Standard Quantity—10

Weight, Approx. 44 lbs.

Retail Price, Each\$7.70

CodeFISEFO

Ceiling Space Required:

Space Above Ceiling Line—10⅞ inches. (Adapter Extended)
Opening to be Cut in Ceiling, Circular—Diam., 9¾ inches.

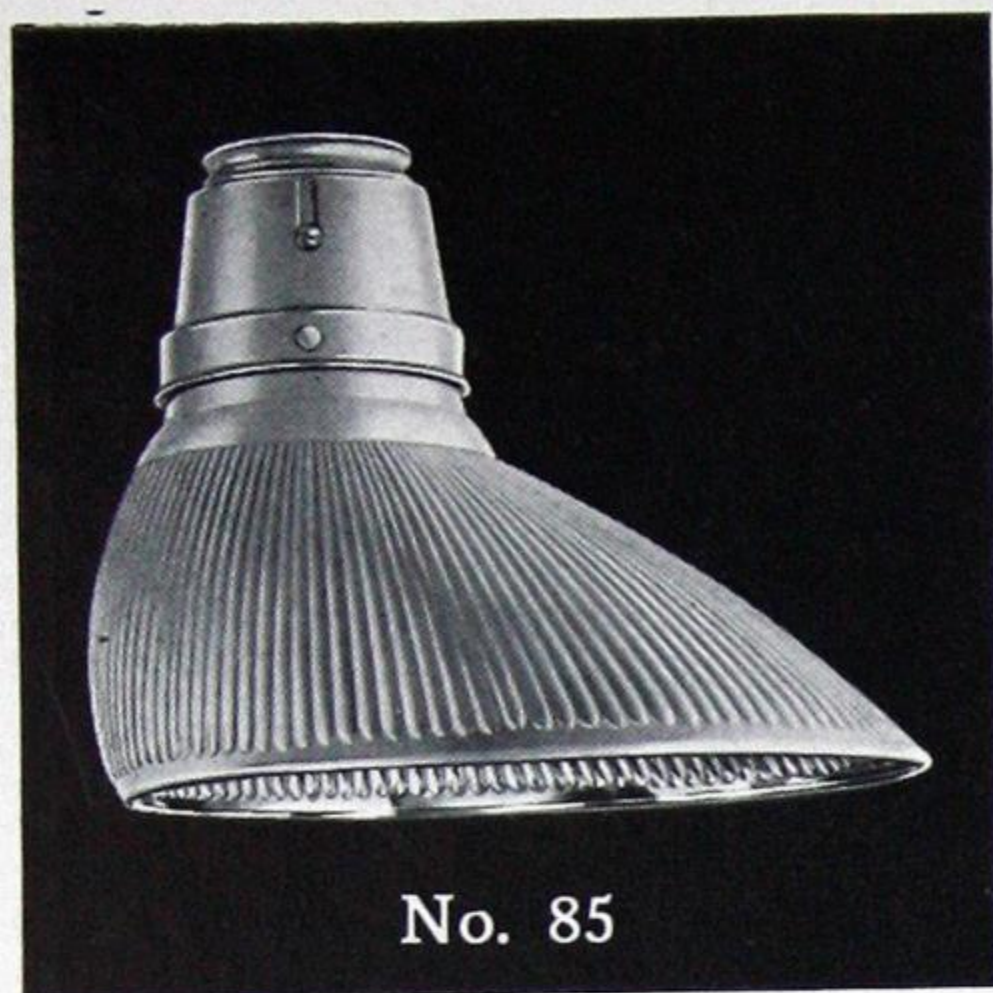
Additional Equipment—for use with No. 57-4.

For Plaster Ceiling—Use Plaster Ring No. 1-B.

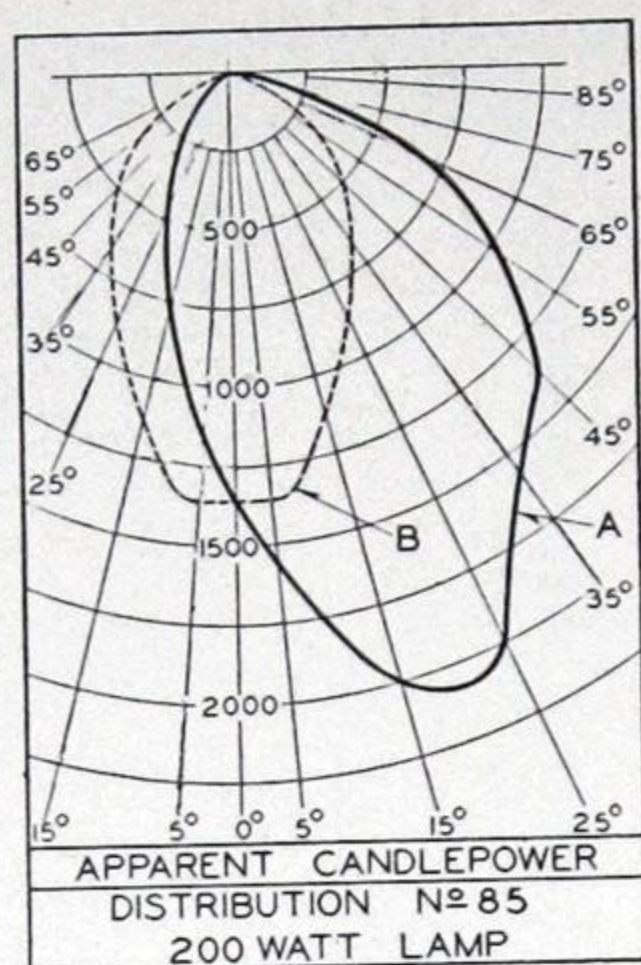
For Protection of Roundel—Use Wire Guard No. WG-1.



PERMAFLECTOR NO. 85 SERIES



No. 85



Application—Permaflector No. 85, when installed flush in the ceiling, illuminates the full height of the background without the sharp cut-off of the more concentrating reflectors Nos. 55, 54, 57. Another application of No. 85 is for indirect lighting from wall urns, coves, columns and indirect floor lamps.

Minimum Spacings: for

Mounting on Conduit No. 1 or No. 12—9 inches on centers.
Mounting on Knockout Strip No. KO-1—9 inches on centers.

Dimensions:

Height with Adapter No. 1234 Extended—7½ inches.
Height with Adapter No. 1234 Compressed—6½ inches.
Height Permaflector No. 85-GO—4½ inches.
Bottom Opening Circular—Diameter, 8½ inches.

Lamp Size—

150 watt A-25, Adapter in compressed position.
200 watt PS-30, Adapter in extended position.

PERMAFLECTOR NO. 85

Consists of:

Permaflector No. 85-GO and Adapter No. 1234.

Standard Quantity—6

Weight, Approx. 12 lbs.

Retail Price, Each.....\$4.00

CodeSHOATFI

Additional Equipment—for use with No. 85.

May Be Installed With:

Outlet Box Cover Assembly No. B-1-3¼ or B-1-4.

May Be Mounted On:

Conduit No. 1 or Knockout Strip No. KO-1.

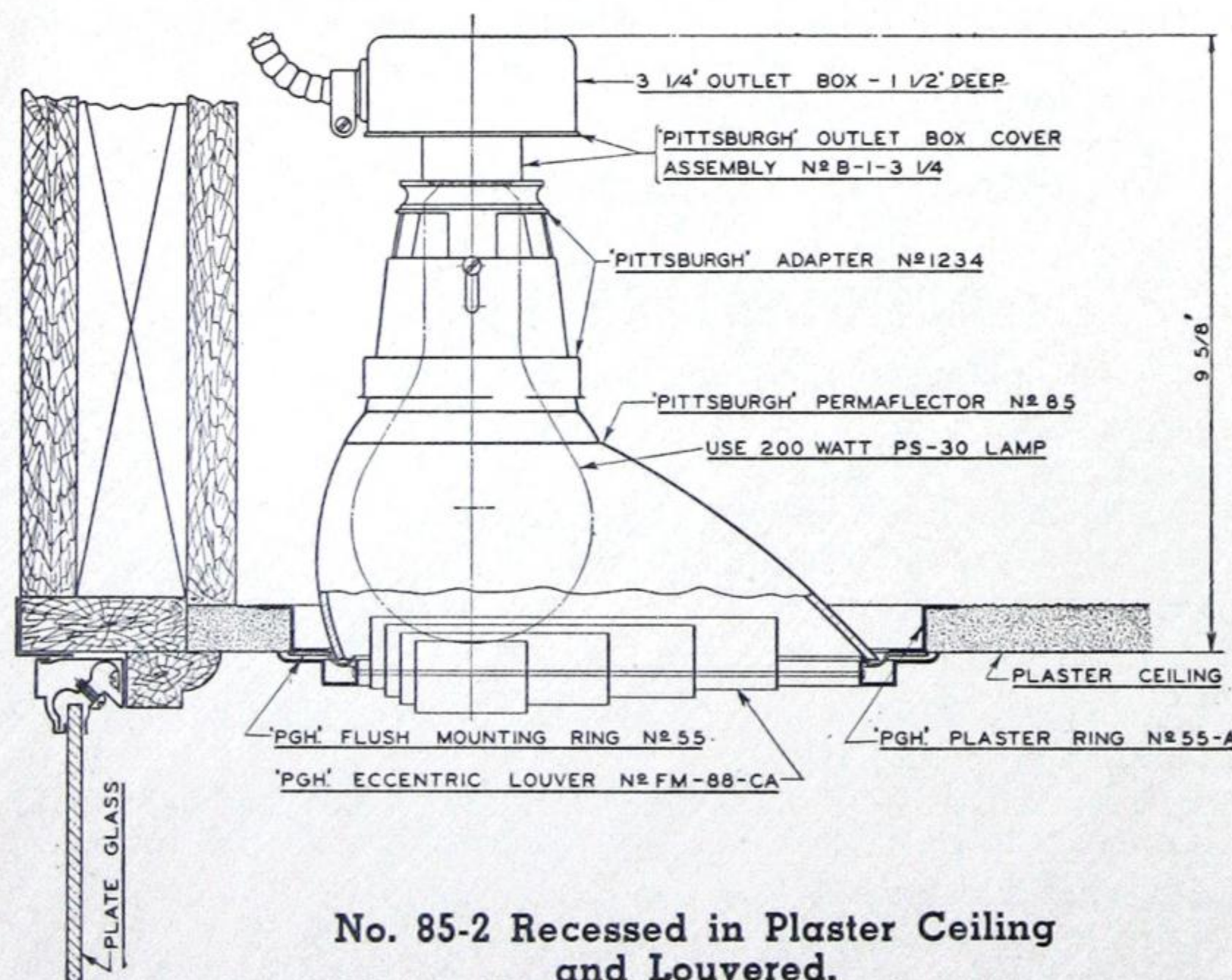
For Colored Lighting: Use

Color-Lite No. 6 or No. 6-DB for external mounting.

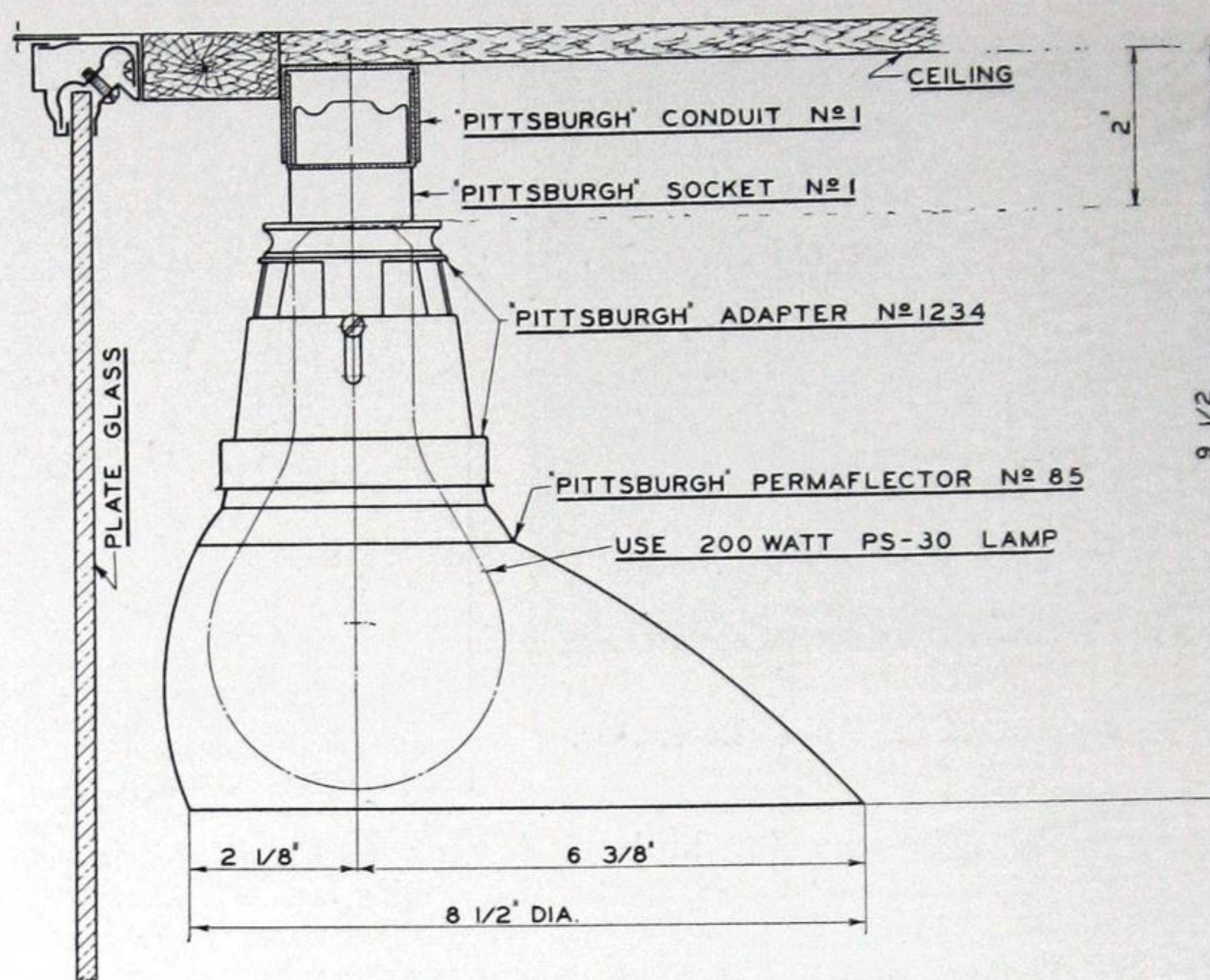
For Louvered Lighting: Use

Parallel Louver No. EM-55 for external mounting.

Eccentric Louver No. EM-88-CA for external mounting.



No. 85-2 Recessed in Plaster Ceiling and Louvered.



No. 85 External Mounting

PERMAFLECTOR NO. 85-R

Consists of:

Permaflector No. 85-GO and Adapter No. 1234-R for use where grooved porcelain sockets are installed.

Standard Quantity—6

Weight, Approx. 12 lbs.

Retail Price, Each.....\$4.00

CodeSHOATFIAR

Additional Equipment—for use with No. 85-R.

May Be Mounted On—Conduit No. 12.

For Colored Lighting—Same as for No. 85.

For Louvered Lighting—Same as for No. 85.

COMBINATION NO. 85-2

(For Recessed Installation)

Consists of:

Permaflector No. 85.

Outlet Box Cover Assembly No. B-1-3¼.

Flush Mounting Ring No. 55.

Standard Quantity—6

Weight, Approx. 17 lbs.

Retail Price, Each.....\$4.87

CodeATFITU

Ceiling Space Required:

Space Above Ceiling Line—9¾ inches (Adapter Extended).

Opening to be Cut in Ceiling, Circular—Diam., 8¾ inches.

Additional Equipment—for use with No. 85-2.

For Plaster Ceiling—Use Plaster Ring No. 55-A.

For Colored Lighting—Use Color-Lite No. 61 or No. 61-DB.

For Ceiling Roundel (Not Hinged)—Use Ceiling Roundel No.

62 with or without Wire Guard No. WG-1.

For Louvered Lighting—Use

Parallel Louver No. FM-55 for external mounting.

Eccentric Louver No. FM-88-CA for external mounting.

COMBINATION NO. 85-4

(Hinged Ceiling Roundel Installation)

Consists of:

Permaflector No. 85.

Outlet Box Cover Assembly No. B-1-3¼.

Hinged Ceiling Roundel No. 1-B.

Standard Quantity—6

Weight, Approx. 30 lbs.

Retail Price, Each.....\$8.20

CodeATFIFO

Ceiling Space Required:

Space Above Ceiling Line—10 inches (Adapter Extended).

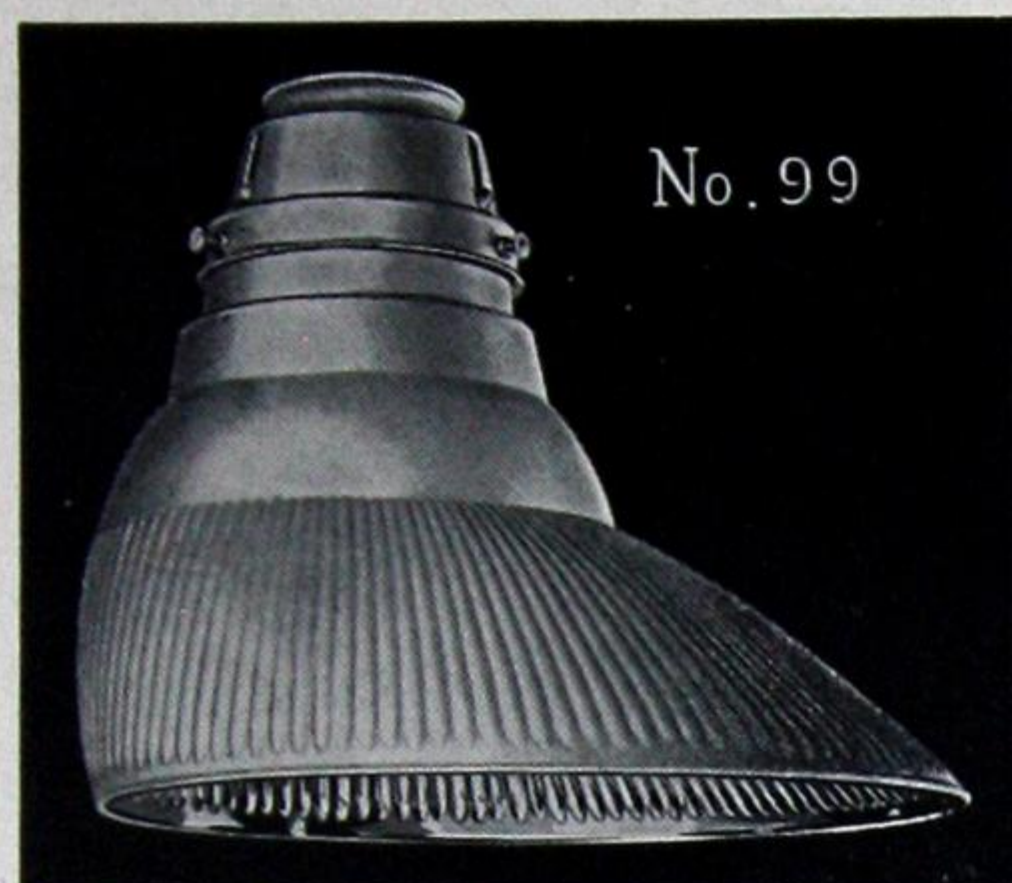
Opening to be Cut in Ceiling, Circular—Diam., 9¾ inches

Additional Equipment—for use with No. 85-4.

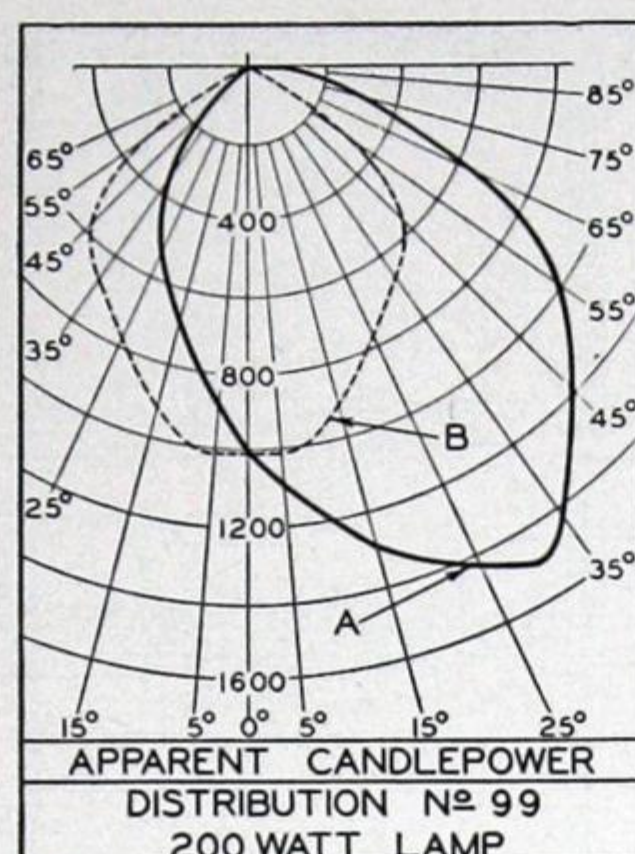
For Plaster Ceiling—Use Plaster Ring No. 1-B.

For Protection of Roundel—Use Wire Guard No. WG-1.

PERMAFLECTOR NO. 99 SERIES



No. 99



Application—Permaflector No. 99, when installed flush in the ceiling, illuminates the full height of the background without the sharp cut-off of the more concentrating reflectors Nos. 55, 54, and 57. Another application of No. 99 is for indirect lighting from wall urns, coves, columns and indirect floor lamps.

Minimum Spacings: for

Mounting on Conduit No. 1 or No. 12—10½ inches on centers.
Mounting on Knockout Strip No. KO-1—12 inches on centers.

Dimensions:

Height with Adapter No. 1256 Compressed—8 inches.
Height Permaflector No. 990-GO—6½ inches.
Bottom Opening Circular—Diameter, 9½ inches.

Lamp Size—

200 watt PS-30 or 300 watt PS-35 Medium Base, Adapter in Compressed Position.

PERMAFLECTOR NO. 99

Consists of:

Permaflector No. 990-GO and Adapter No. 1256.

Standard Quantity—4

Weight, Approx. 11 lbs.

Retail Price, Each.....\$4.50

CodeSHONINE

Additional Equipment—for use with No. 99.

May Be Installed With:

Outlet Box Cover Assembly No. B-1-3¼ or B-1-4.

May Be Mounted On:

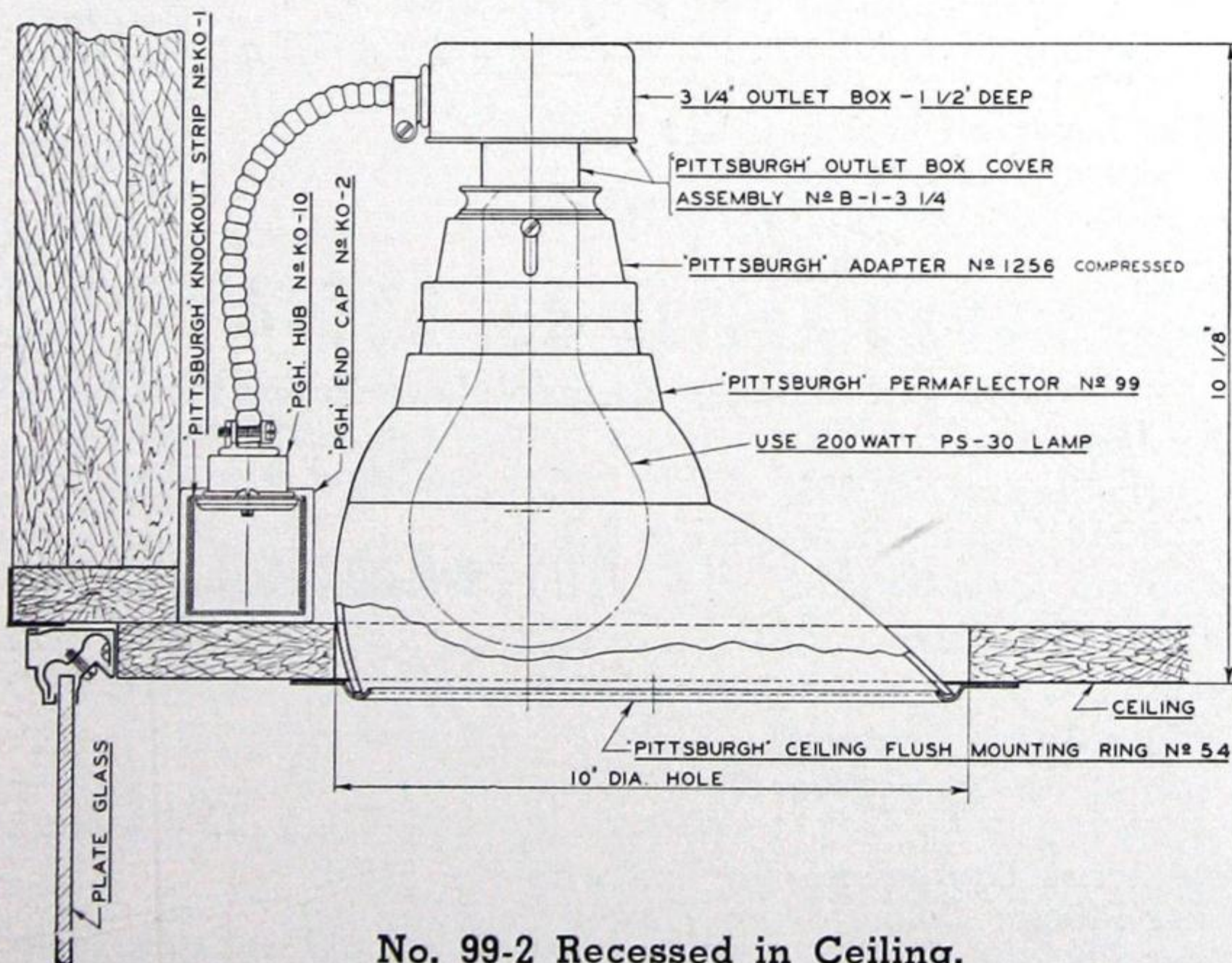
Conduit No. 1 or Knockout Strip No. KO-1.

For Colored Lighting: Use

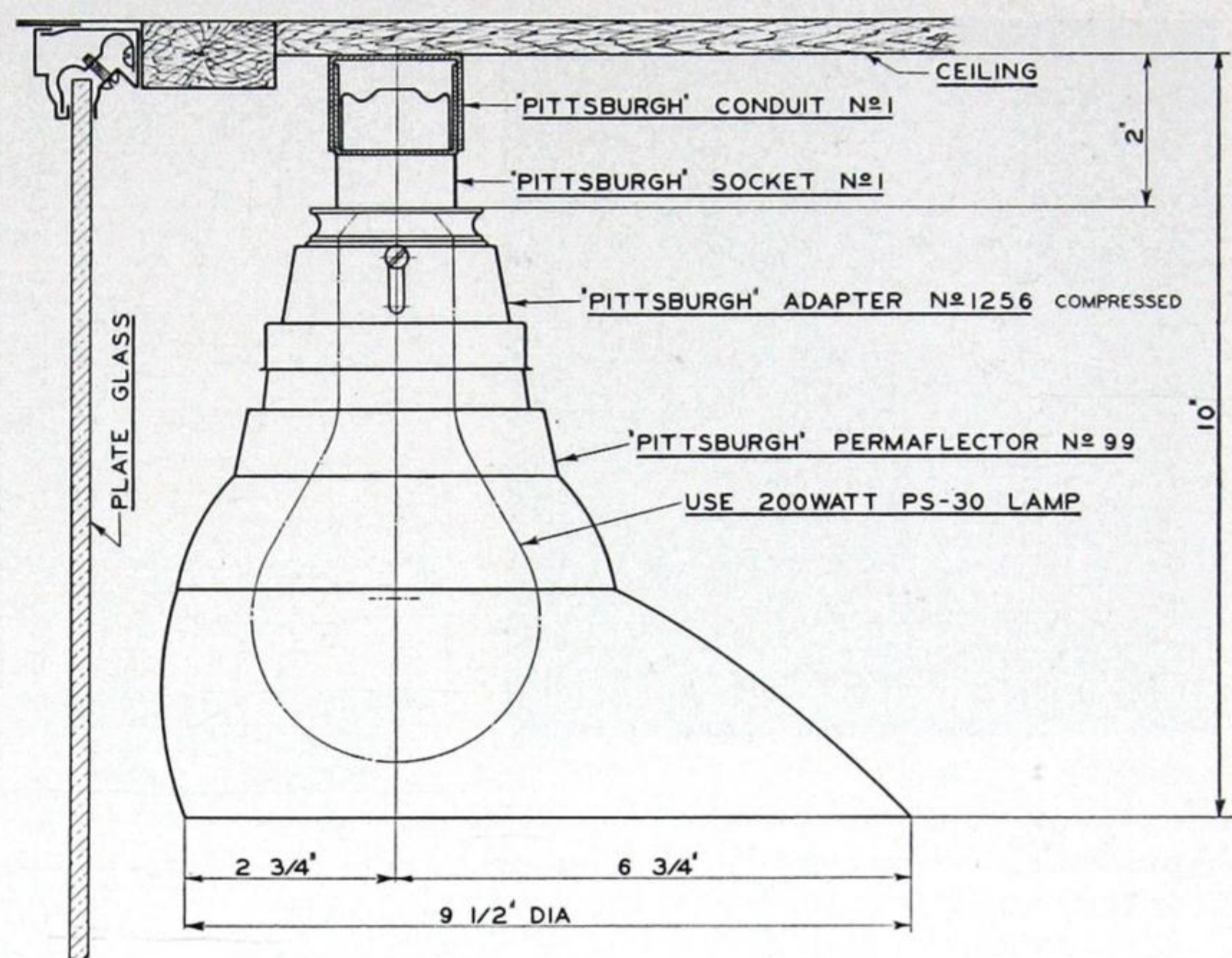
Color-Lite No. 2 or No. 2-DB for external mounting.

For Louvered Lighting: Use

Parallel Louver No. EM-54 for external mounting.
Eccentric Louver No. EM-99-CA for external mounting.



No. 99-2 Recessed in Ceiling.



No. 99 External Mounting.

PERMAFLECTOR NO. 99-R

Consists of:

Permaflector No. 990-GO and Adapter No. 1256-R for use where grooved porcelain sockets are installed.

Standard Quantity—4

Weight, Approx. 11 lbs.

Retail Price, Each.....\$4.50

CodeSHONNER

Additional Equipment—for use with No. 99-R.

May Be Mounted On—Conduit No. 12.

For Colored Lighting—Same as for No. 99.

For Louvered Lighting—Same as for No. 99.

COMBINATION NO. 99-2

(For Recessed Installation)

Consists of:

Permaflector No. 99.

Outlet Box Cover Assembly No. B-1-3¼.

Flush Mounting Ring No. 54.

Standard Quantity—4

Weight, Approx. 15 lbs.

Retail Price, Each.....\$5.45

CodeNINITU

Ceiling Space Required:

Space Above Ceiling Line—10½ in. (Adapter Compressed).
Opening to be Cut in Ceiling, Circular—Diam., 10 inches.

Additional Equipment—for use with No. 99-2.

For Plaster Ceiling—Use Plaster Ring No. 54.

For Colored Lighting—Use Color-Lite No. 21 or No. 21-DB.

For Ceiling Roundel (Not Hinged)—Use Ceiling Roundel No. 21 with or without Wire Guard No. WG-6.

For Louvered Lighting—Use

Parallel Louver No. FM-54.
Eccentric Louver No. FM-99-CA.

COMBINATION NO. 99-4

(Hinged Ceiling Roundel Installation)

Consists of:

Permaflector No. 99.

Outlet Box Cover Assembly No. B-1-3¼.

Hinged Ceiling Roundel No. 6-B.

Standard Quantity—4

Weight, Approx. 25 lbs.

Retail Price, Each.....\$9.55

CodeNINIFO

Ceiling Space Required:

Space Above Ceiling Line—10½ in. (Adapter Compressed).
Opening to be Cut in Ceiling, Circular—Diam., 10¾ inches.

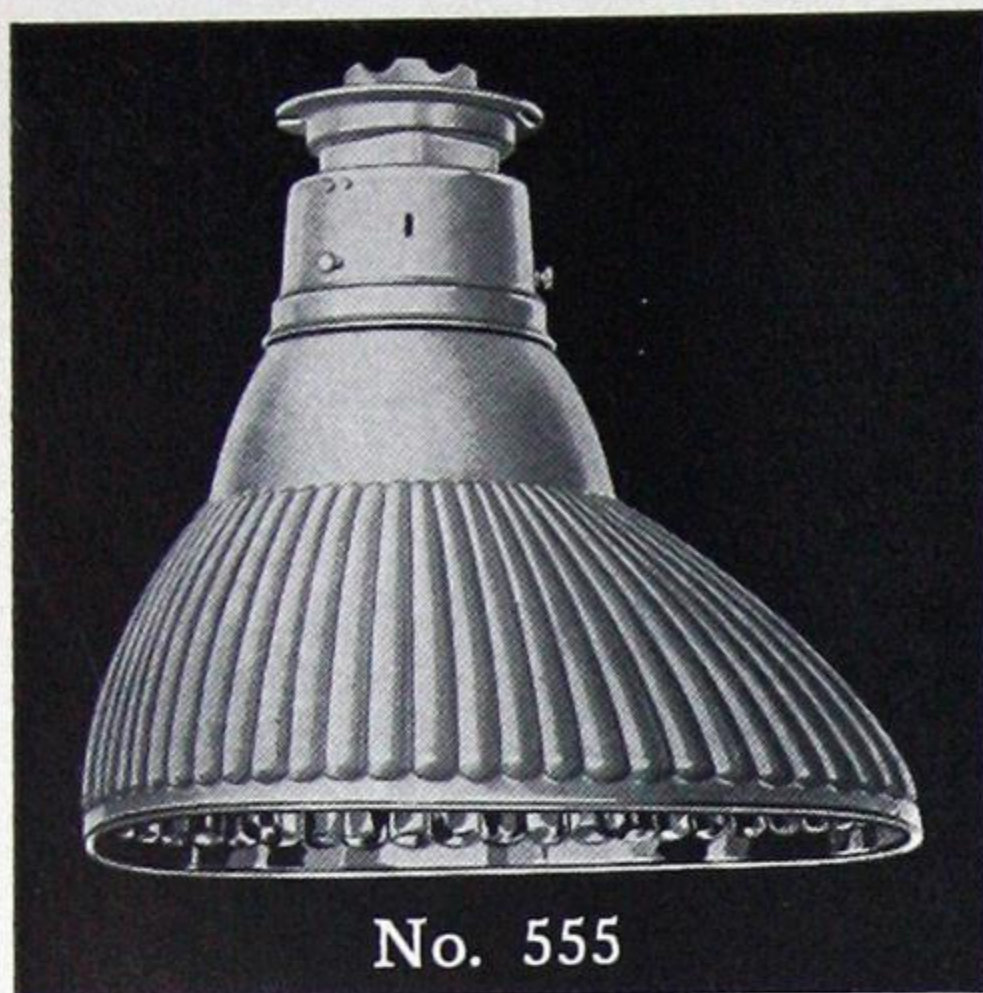
Additional Equipment—for use with No. 99-4.

For Plaster Ceiling—Use Plaster Ring No. 6-B.

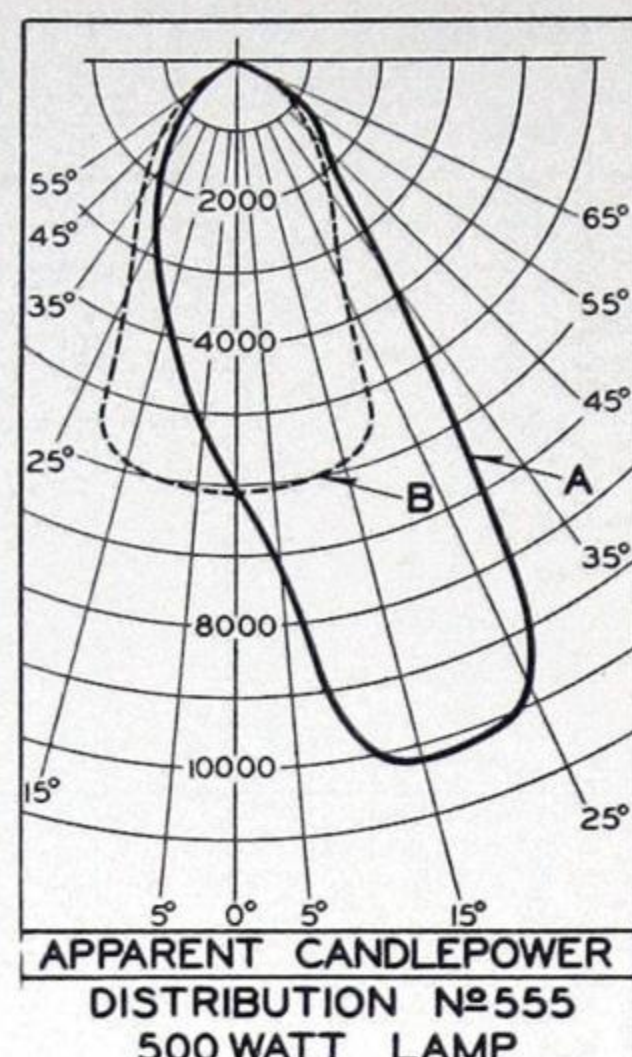
For Protection of Roundel—Use Wire Guard No. WG-6.



PERMAFLECTOR NO. 555 SERIES



No. 555



Application—Primarily for shallow windows 8 to 16 feet high; island windows; flush mounting. It also serves the various applications of No. 55 and No. 54, where a higher wattage is required because of greater elevation.

Minimum Spacings: for

Mounting on Conduit No. 6—14 inches on centers.

Mounting on Knockout Strip No. KO-1—15 inches on centers.

Dimensions:

Height Permaflector No. 555-GO—8 1/8 inches.

Bottom Opening Circular—Diameter, 12 1/2 inches.

Lamp Size—

500 watt PS-40;

300 watt PS-35.

PERMAFLECTOR NO. 555

Consists of:

Permaflector No. 555-GO.

Outlet Box Cover Assembly No. B-3.

Holder No. M-3.

Attaches to any standard 4-inch Outlet Box 1 5/8 inches deep.

Standard Quantity—1

Weight, Approx. 7 lbs.

Retail Price, Each

Permaflector No. 555.....\$9.25

Permaflector No. 555-GO (Glass Only).....\$7.40

Code: Permaflector No. 555.....FIFITIFI

Permaflector No. 555-GO.....FIFITIFGLA

Additional Equipment—for use with No. 555

May Be Mounted On:

Conduit No. 6, in which case discard outlet box cover.

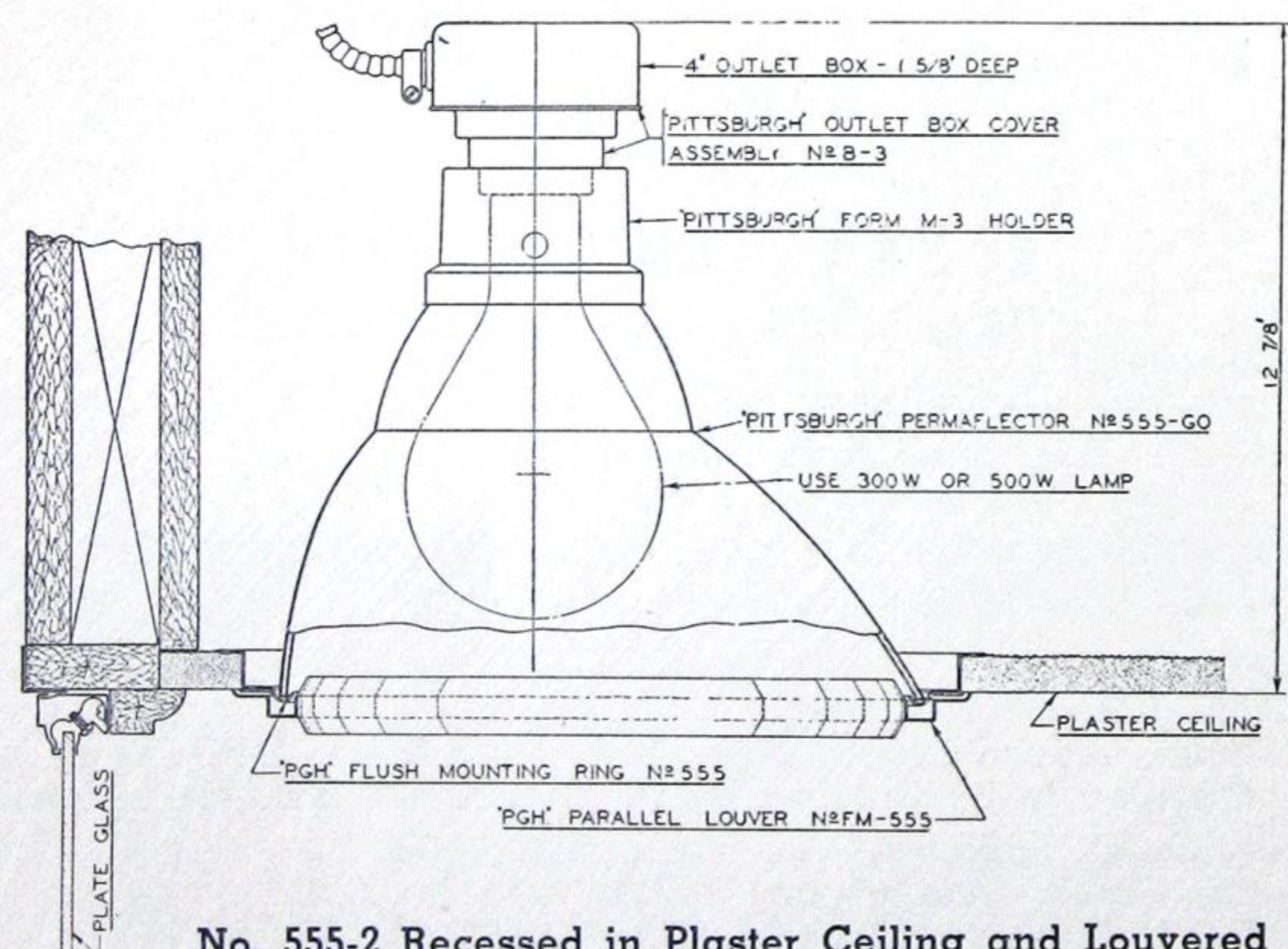
For Colored Lighting: Use

Color-Lite No. 8 for external mounting.

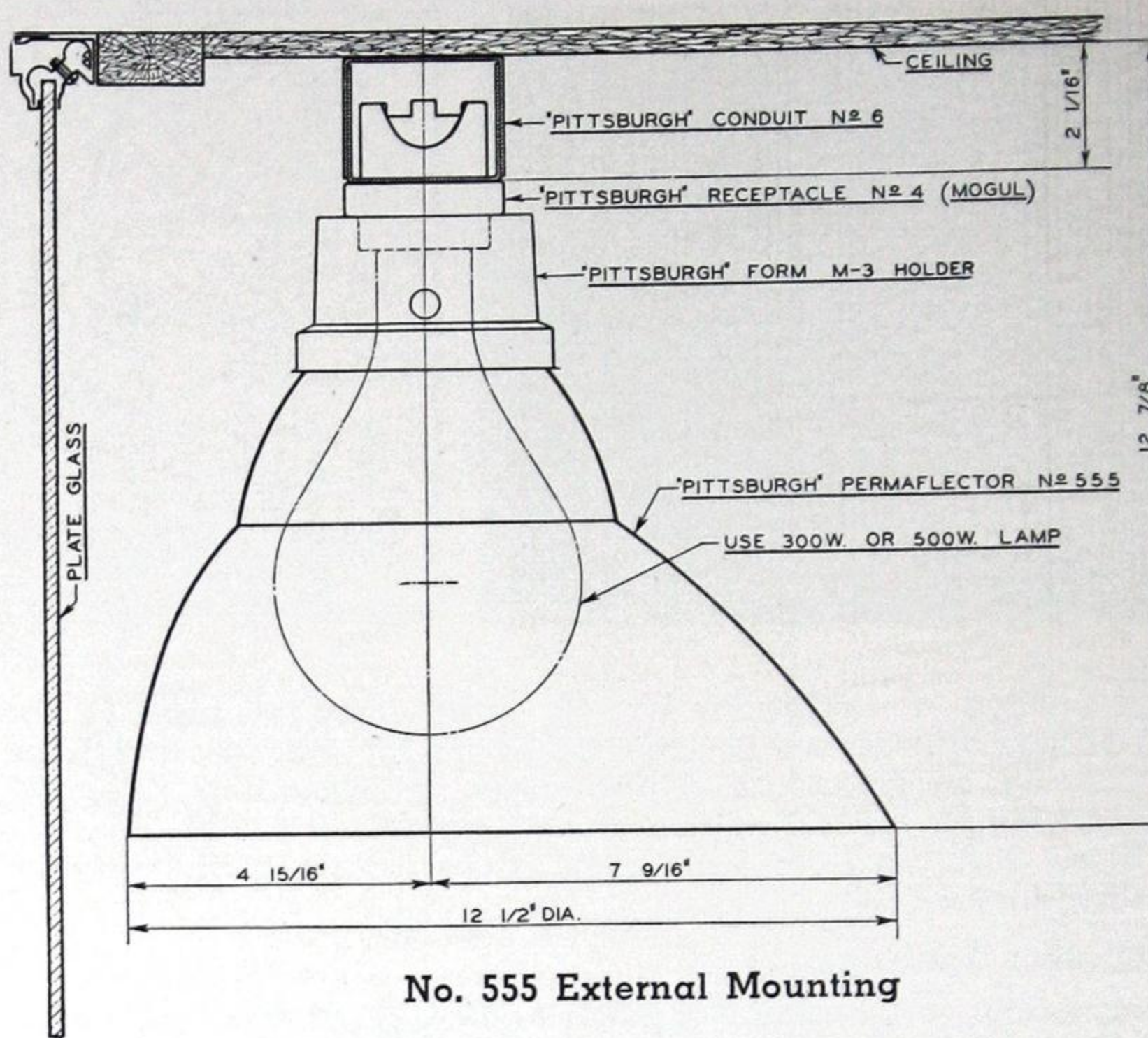
For Louvered Lighting: Use

Parallel Louver No. EM-555 for external mounting.

Eccentric Louver No. EM-555-CA for external mounting.



No. 555-2 Recessed in Plaster Ceiling and Louvered



No. 555 External Mounting

PERMAFLECTOR NO. 555-B

Consists of:

Permaflector No. 555-GO.

Porcelain Mogul Socket No. 4.

Holder No. M-3.

Box No. KO-11 for attaching to 1/2\" conduit stem.

Standard Quantity—1

Weight, Approx. 7 lbs.

Retail Price, Each.....\$9.25

CodeFITIFIBI

Additional Equipment—for use with No. 555-B.

For Colored Lighting—Same as for No. 555.

For Louvered Lighting—Same as for No. 555.

COMBINATION NO. 555-2

(For Recessed Installation)

Consists of:

Permaflector No. 555.

Flush Mounting Ring No. 555.

Standard Quantity—1

Weight, Approx. 7 1/2 lbs.

Retail Price, Each\$10.25

CodeFITIFTU

Ceiling Space Required:

Space Above Ceiling Line—12 7/8 inches.

Opening to be Cut in Ceiling, Circular—Diam., 12 3/4 inches.

Additional Equipment—for use with No. 555-2.

For Plaster Ceiling—Use Plaster Ring No. 555.

For Ceiling Roundel (Not Hinged)—Use

Ceiling Roundel No. 81 with or without Wire Guard No. WG-2.

For Louvered Lighting: Use

Parallel Louver No. FM-555.

Eccentric Louver No. FM-555-CA.

COMBINATION NO. 555-4

(Hinged Ceiling Roundel Installation)

Consists of:

Permaflector No. 555.

Hinged Ceiling Roundel No. 2-B.

Standard Quantity—1

Weight, Approx. 13 lbs.

Retail Price, Each\$17.75

CodeFITIFO

Ceiling Space Required:

Space Above Ceiling Line—13 1/4 inches.

Opening to be Cut in Ceiling, Circular—Diam., 13 3/8 inches.

Additional Equipment—for use with No. 555-4.

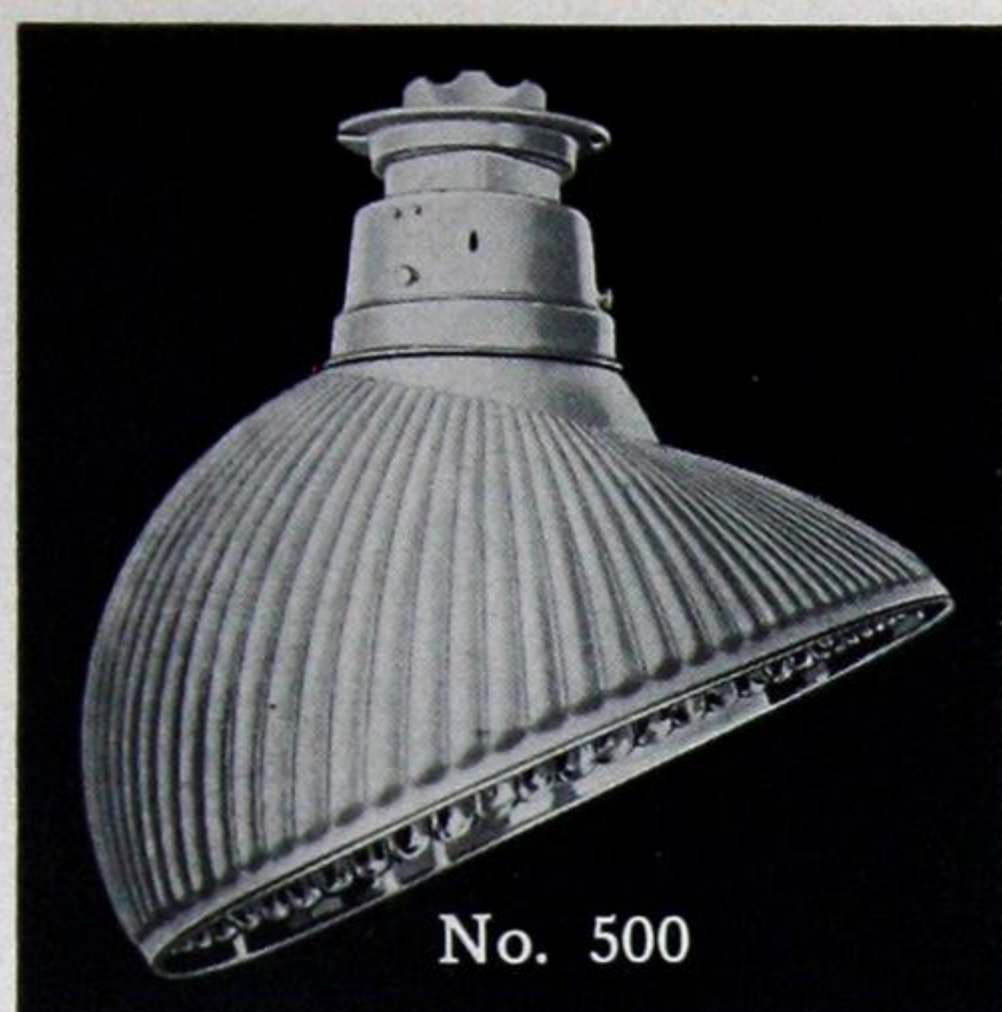
For Plaster Ceiling—Use Plaster Ring No. 2-B.

For Protection of Roundel—Use Wire Guard No. WG-2.

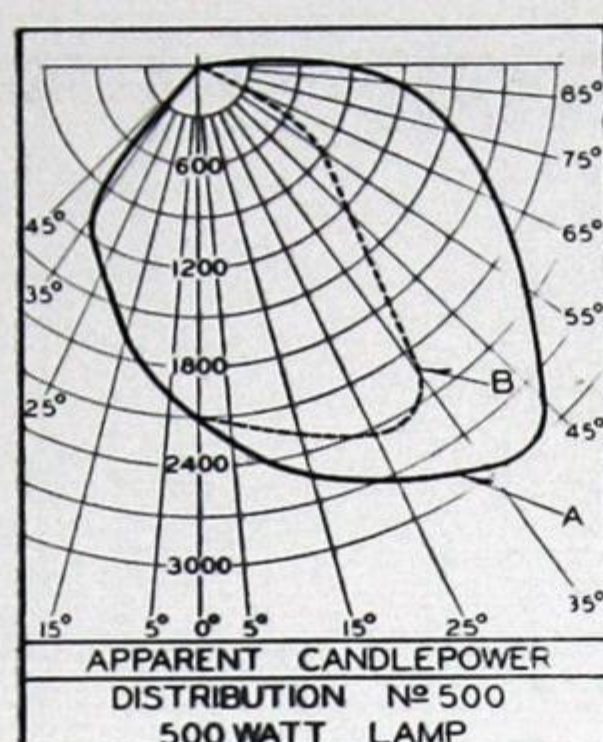


PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA

PERMAFLECTOR NO. 500 SERIES



No. 500



Application—Primarily for deep windows, 9 to 16 feet high, in which trim is carried full height of window. Also excellent for other display lighting and coves in large interiors.

Minimum Spacings: for

Mounting on Conduit No. 6—14 inches on centers.

Mounting on Knockout Strip No. KO-1—15 inches on centers.

Dimensions:

Height Permalector No. 500-GO—9½ inches.

Lamp Size—

500 watt PS-40;

300 watt PS-35.

PERMAFLECTOR NO. 500

Consists of:

Permalector No. 500-GO.

Outlet Box Cover Assembly No. B-3.

Holder No. M-3.

Attaches to any standard 4" Outlet Box, 1½ inches deep.

Standard Quantity—1

Weight, Approx. 7½ lbs.

Retail Price, Each:

Permalector No. 500\$9.75

Permalector No. 500-GO (Glass Only).....\$7.90

Code: Permalector No. 500SHOFIHUN

Permalector No. 500-GOFIHUNGLA

Additional Equipment—for use with No. 500.

May Be Mounted On:

Conduit No. 6, in which case discard outlet box cover.

For Colored Lighting: Use

Color-Lite No. 8 for external mounting.

For Louvered Lighting: Use

Parallel Louver No. EM-555 for external mounting.

Concentric Louver No. EM-555-C for external mounting.

PERMAFLECTOR NO. 500-B

Consists of:

Permalector No. 500-GO.

Porcelain Mogul Socket No. 4.

Holder No. M-3.

Box No. KO-11 for attaching to ½" conduit stem.

Standard Quantity—1

Weight, Approx. 7½ lbs.

Retail Price, Each.....\$9.75

CodeFIVEHUNBI

Additional Equipment—for use with No. 500-B.

For Colored Lighting—Same as for No. 500.

For Louvered Lighting—Same as for No. 500.

COMBINATION NO. 500-2

Consists of:

Permalector No. 500.

Flush Mounting Ring No. 500.

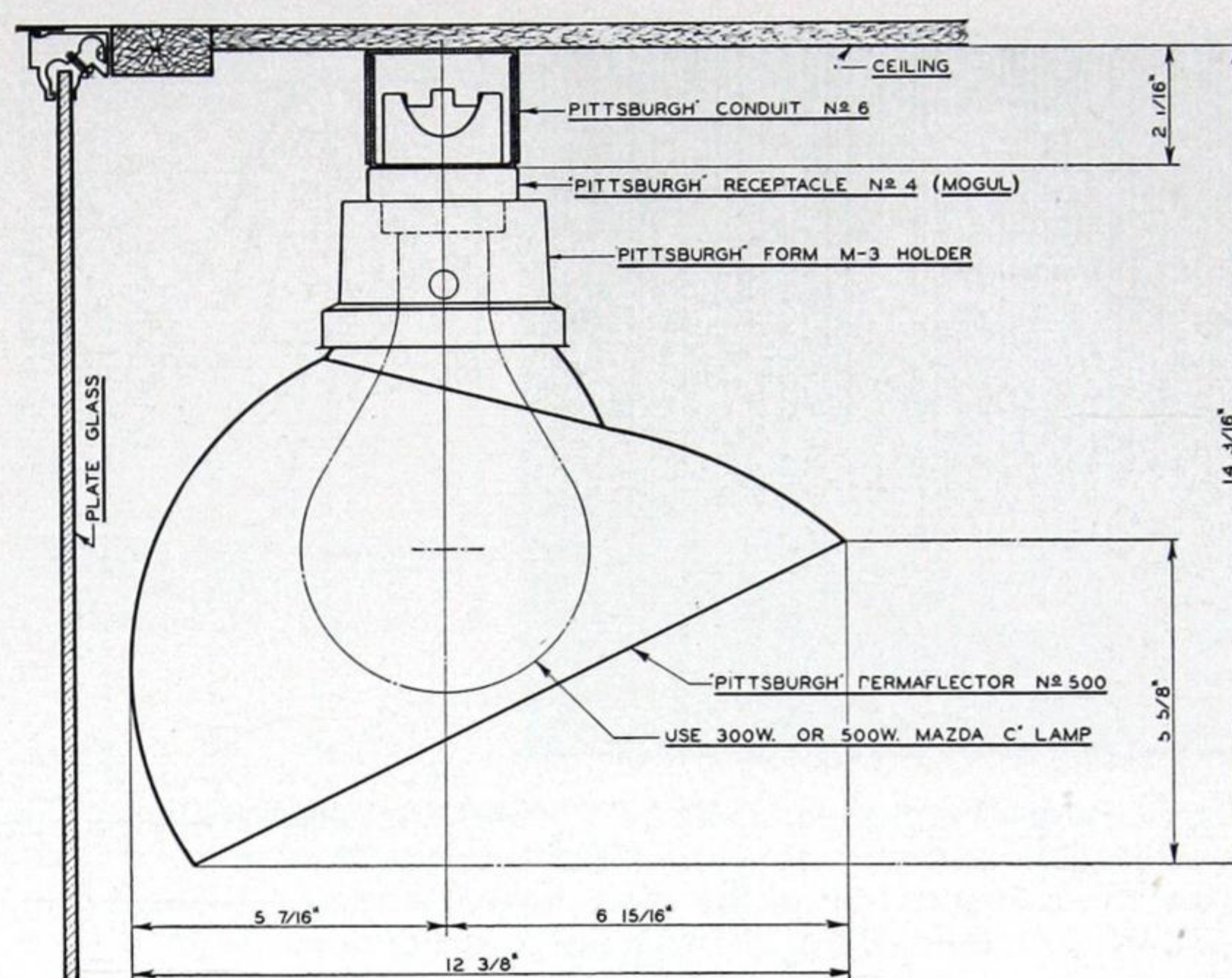
Standard Quantity—1

Weight, Approx. 10½ lbs.

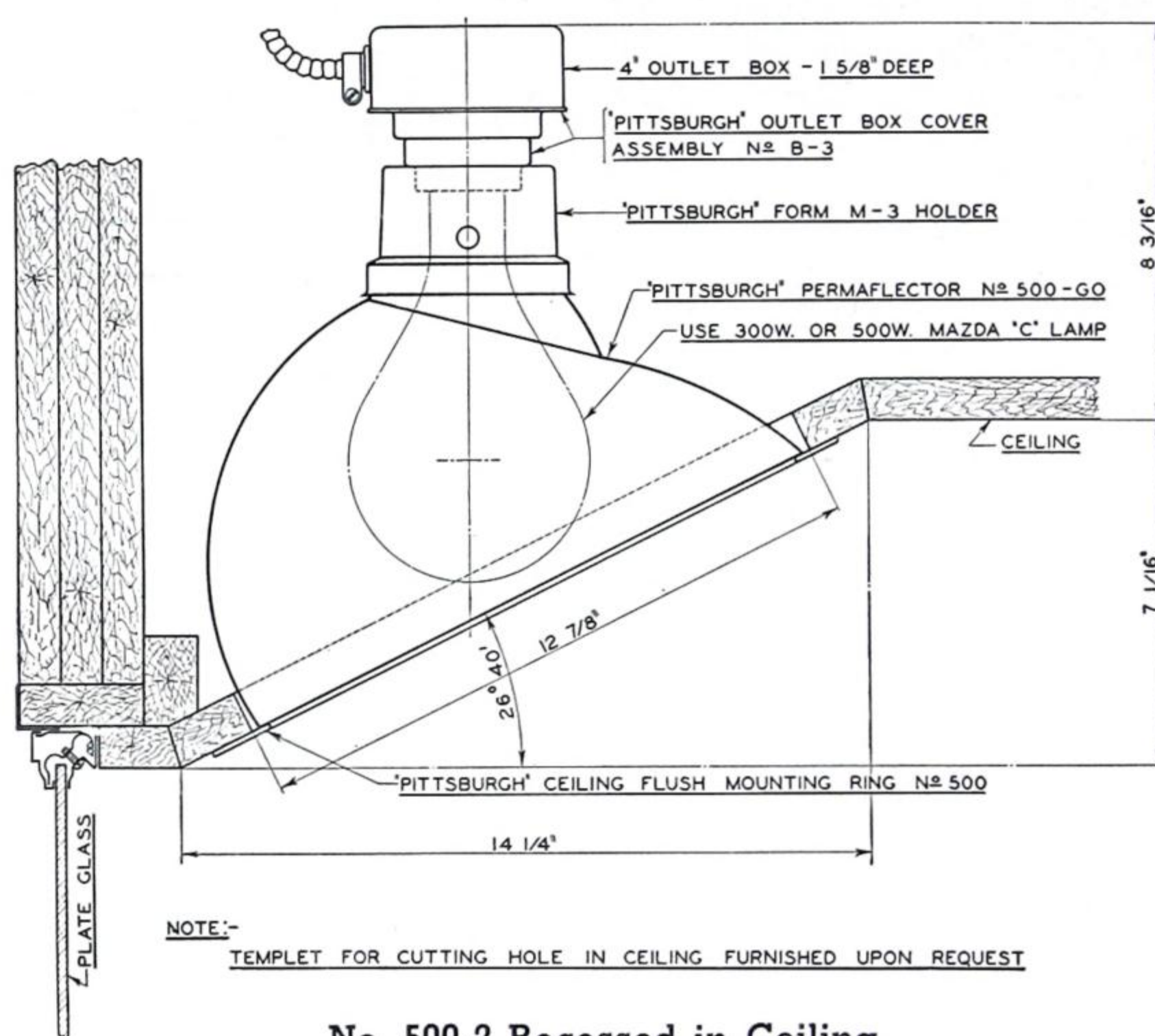
Retail Price, Each.....\$11.45

CodeFIHUTU

Opening to be Cut in Ceiling—Templet free on request.



No. 500 External Mounting



No. 500-2 Recessed in Ceiling

THREE-LIGHT EQUIPMENT

For Nos. 500 and 555 Series

The substitution of Three-Light Mogul Socket No. 5 for Standard Mogul Socket No. 4, converts the following items for use with:

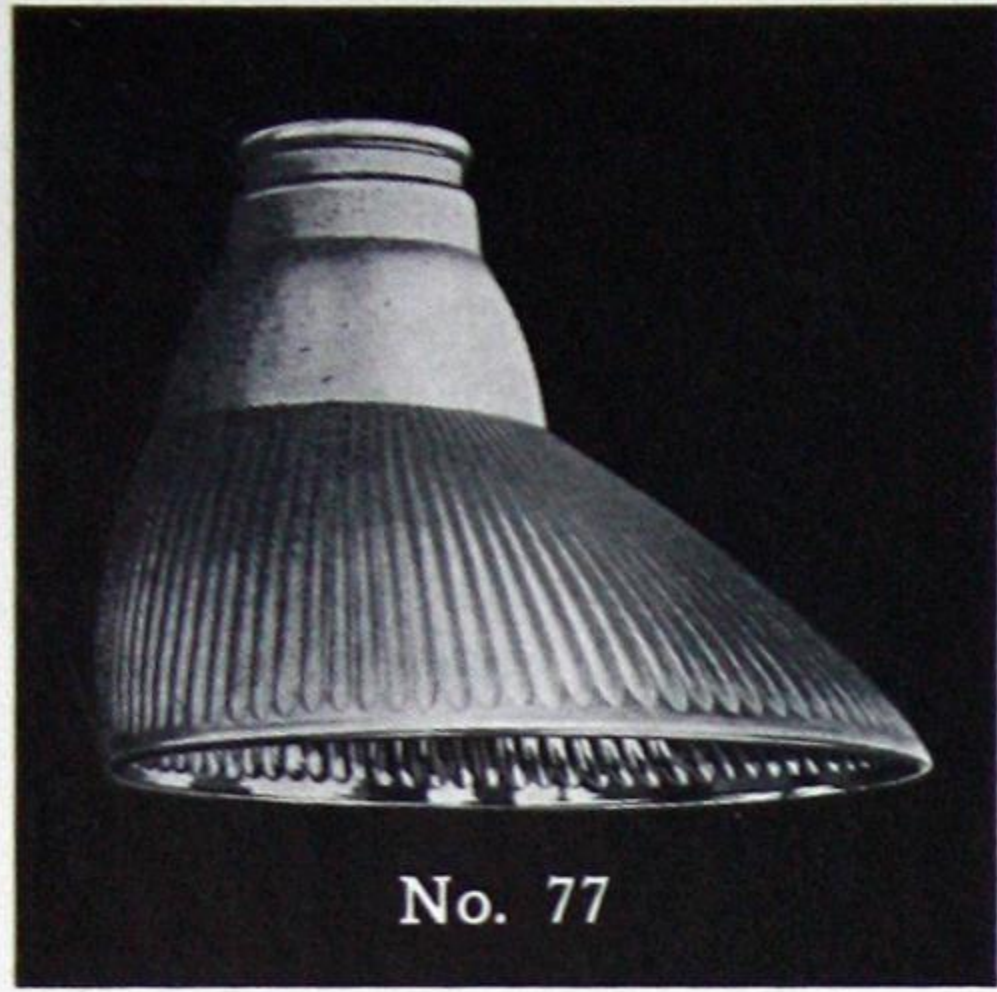
200-300-500 Watt PS-40, Three-Light Lamp or

150-200-300 Watt, PS-35, Three-Light Lamp

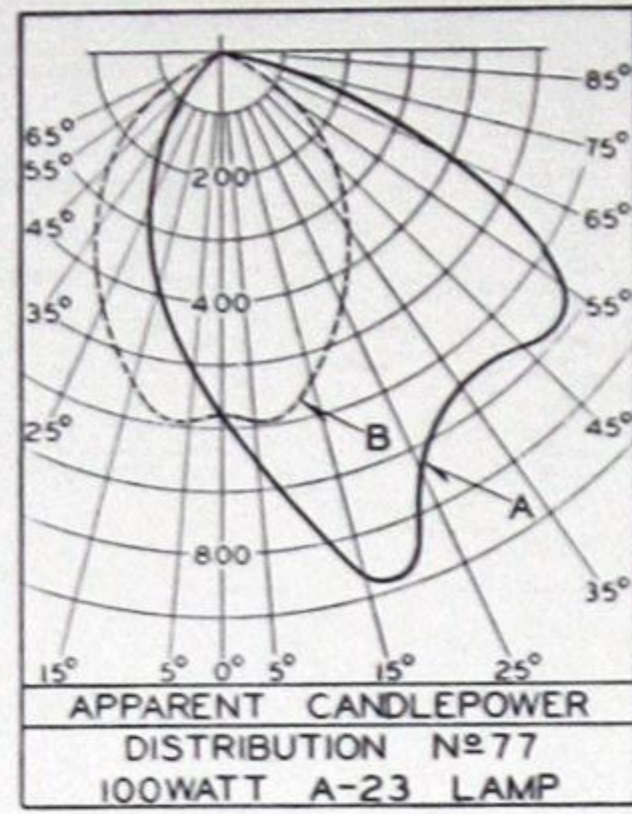
Catalog No.	Std. Quan.	Retail Price Each	Code
Permalector No. 500, 3-Light	1	\$10.00	FIHUNTRE
Permalector No. 500-B, 3-Light	1	10.00	FIHUNTREB
Combination No. 500-2, 3-Light	1	11.70	FIHUTURE
Permalector No. 555, 3-Light	1	9.50	FITIFITRE
Permalector No. 555-B, 3-Light	1	9.50	FITIFITREB
Combination No. 555-2, 3-Light	1	10.50	FITIFTUR
Combination No. 555-4, 3-Light	1	18.00	FITIFOR



PERMAFLECTOR NO. 77 SERIES



No. 77



Application—Permalector No. 77, when installed flush in the ceiling, illuminates the full height of the background without the sharp cut-off of the more concentrating reflectors Nos. 55, 54, 57. Before No. 77 was introduced these desirable results could be secured only by the use of the angle reflectors No. 73, 105, 110, 500, which however required angling-off the ceiling at the glass line to conform to the angle of the front of the reflector, a form of construction frequently out of question. Another application of No. 77 is for indirect lighting from wall urns, coves, columns and indirect floor lamps.

Minimum Spacings: for
Mounting on Conduit No. 1 or No. 12—7 1/2 inches on centers.
Mounting on Knockout Strip No. KO-1—9 inches on centers.

Dimensions:
Height Permalector No. 77—5 1/2 inches.
Bottom Opening Circular—Diameter, 7 inches.

Lamp Size—100 watt A-23.

PERMAFLECTOR NO. 77

Standard Quantity—12 **Weight, Approx.** 16 lbs.
Retail Price, Each.....\$2.55
Code.....SEVTISEN

Additional Equipment—for use with No. 77.

Holder:

For Grooved Porcelain Socket—Use
2 1/4" Form "SR" Holder.
For Porcelain Sockets No. 1 or No. KO-8—Use
2 1/4" Form "S" Holder.

May Be Installed With:

Outlet Box Cover Assembly No. B-1-3 1/4-S or B-1-4-S.

May Be Mounted On:

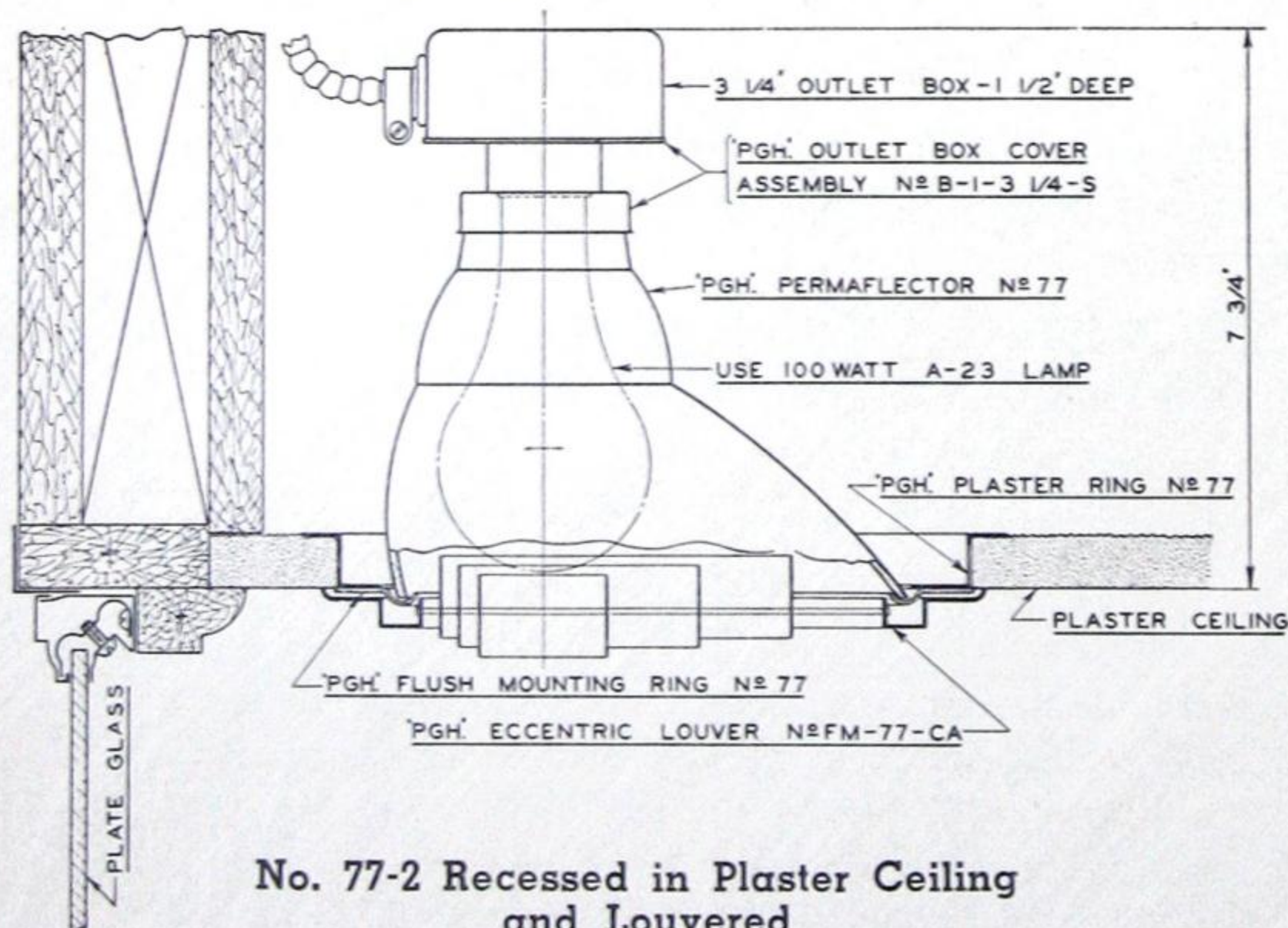
Conduit No. 1 or Knockout Strip No. KO-1 with 2 1/4" Form "S" Holder.
Conduit No. 12 with 2 1/4" Form "SR" Holder.

For Colored Lighting: Use

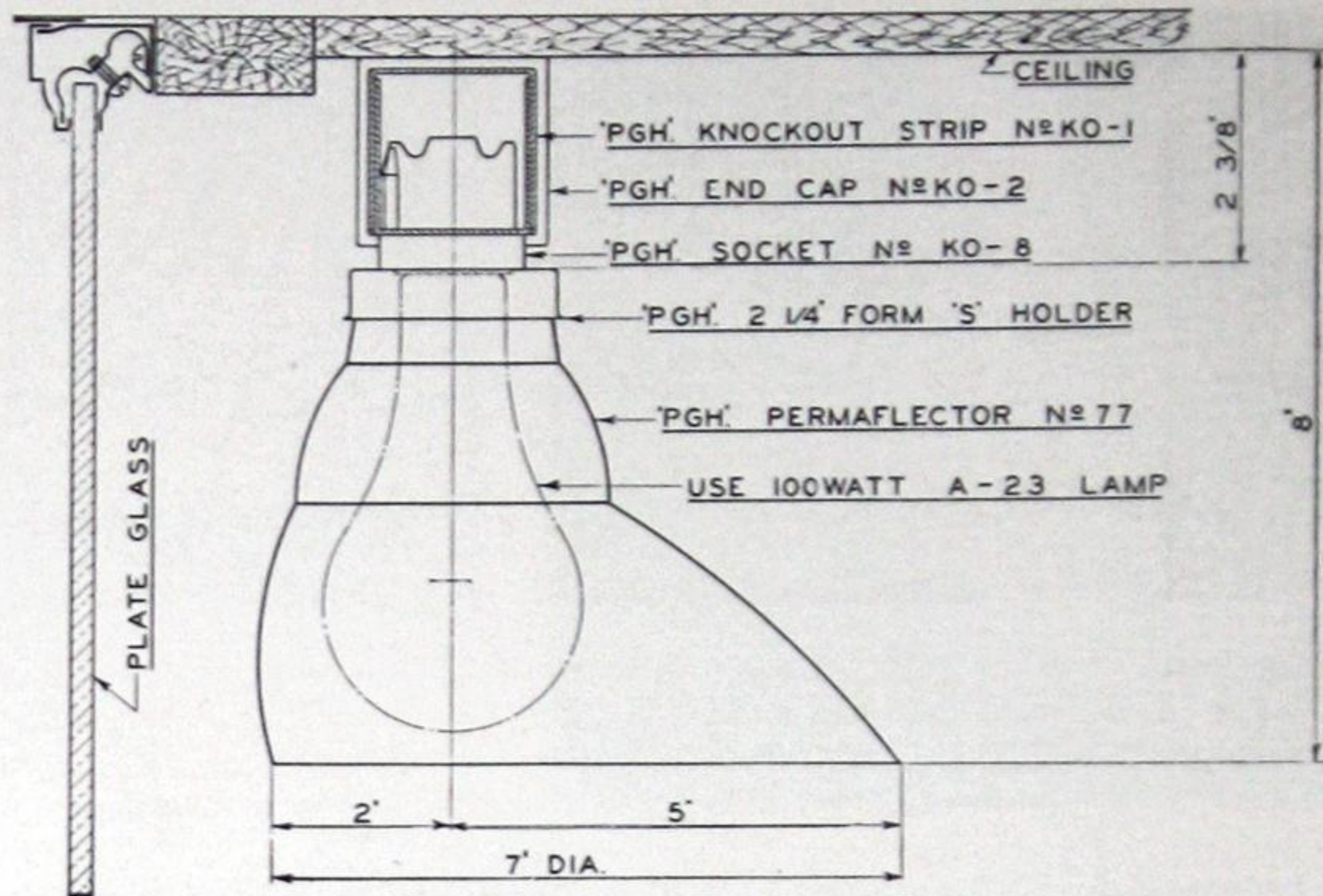
Color-Lite No. 16 or No. 16-DB for external mounting.

For Louvered Lighting: Use

Parallel Louver No. EM-77 for external mounting.
Eccentric Louver No. EM-77-CA for external mounting.



No. 77-2 Recessed in Plaster Ceiling and Louvered



No. 77 External Mounting

COMBINATION NO. 77-2

(For Recessed Installation)

Consists of:

Permalector No. 77.
Outlet Box Cover Assembly No. B-1-3 1/4-S.
Flush Mounting Ring No. 77.

Standard Quantity—12

Weight, Approx. 25 lbs.

Retail Price, Each.....

\$3.53

Code.....

SEVSETU

Ceiling Space Required:

Space Above Ceiling Line—7 3/4 inches.
Opening to be Cut in Ceiling, Circular—Diam., 7 1/4 inches.

Additional Equipment—for use with No. 77-2.

For Plaster Ceiling—Use Plaster Ring No. 77.

For Colored Lighting—Use Color-Lite No. 41 or No. 41-DB.

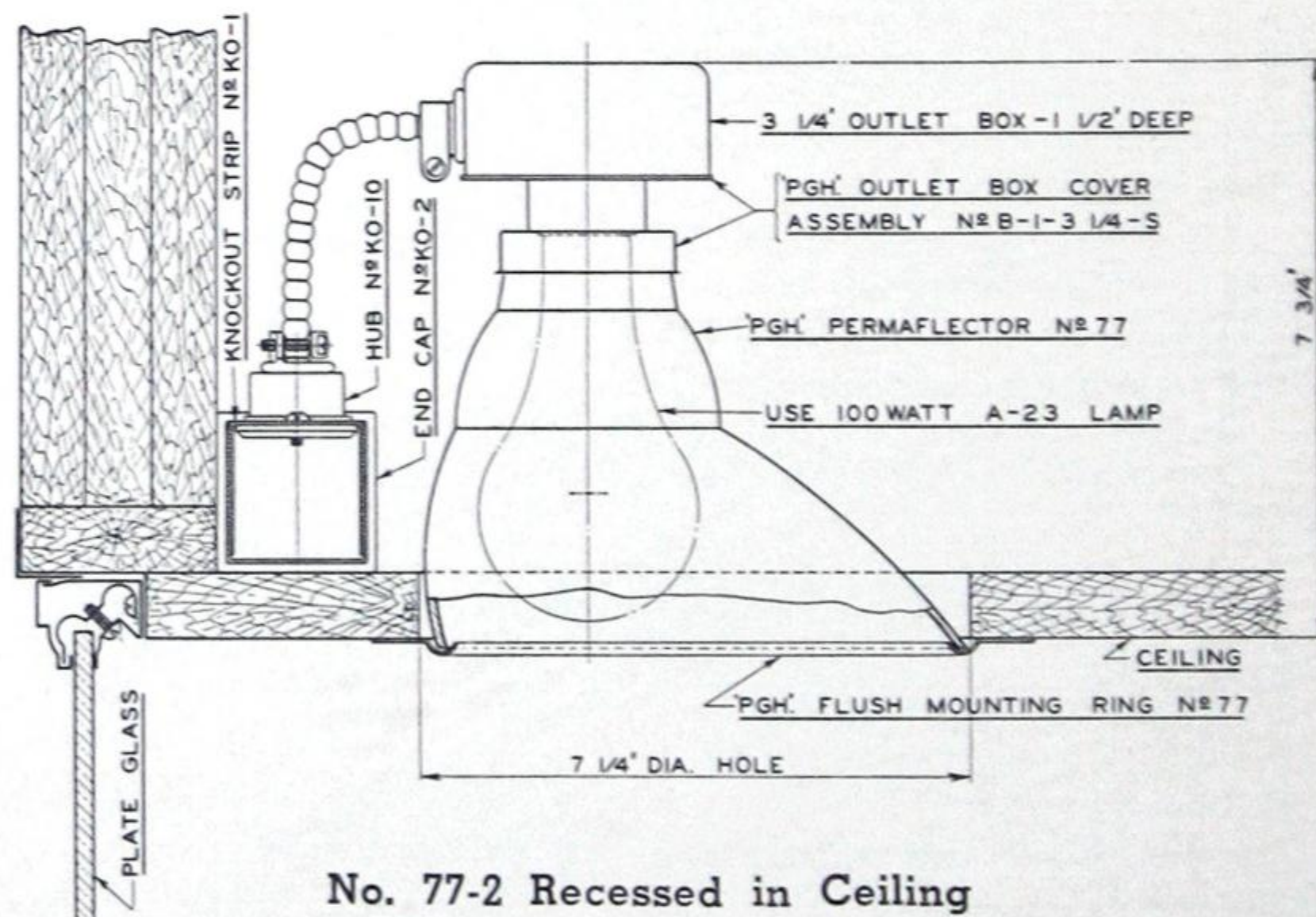
For Ceiling Roundel (Not Hinged)—Use

Ceiling Roundel No. 41 with or without Wire Guard No. WG-4.

For Louvered Lighting—Use

Parallel Louver No. FM-77.

Eccentric Louver No. FM-77-CA.



No. 77-2 Recessed in Ceiling

COMBINATION NO. 77-4

(Hinged Ceiling Roundel Installation)

Consists of:

Permalector No. 77.
Outlet Box Cover Assembly No. B-1-3 1/4-S.
Hinged Ceiling Roundel No. 4-B.

Standard Quantity—12

Weight, Approx. 40 lbs.

Retail Price, Each.....

\$6.15

Code.....

SEVSEFO

Ceiling Space Required:

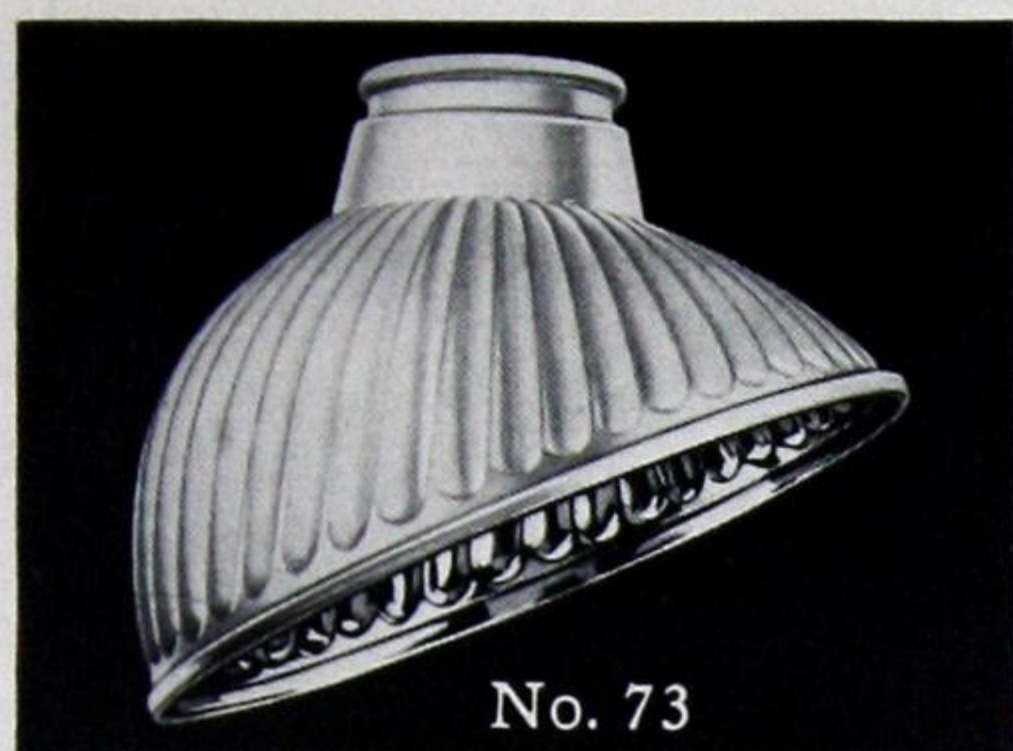
Space Above Ceiling Line—8 1/8 inches.
Opening to be Cut in Ceiling, Circular—Diam., 7 7/8 inches.

Additional Equipment—for use with No. 77-4.

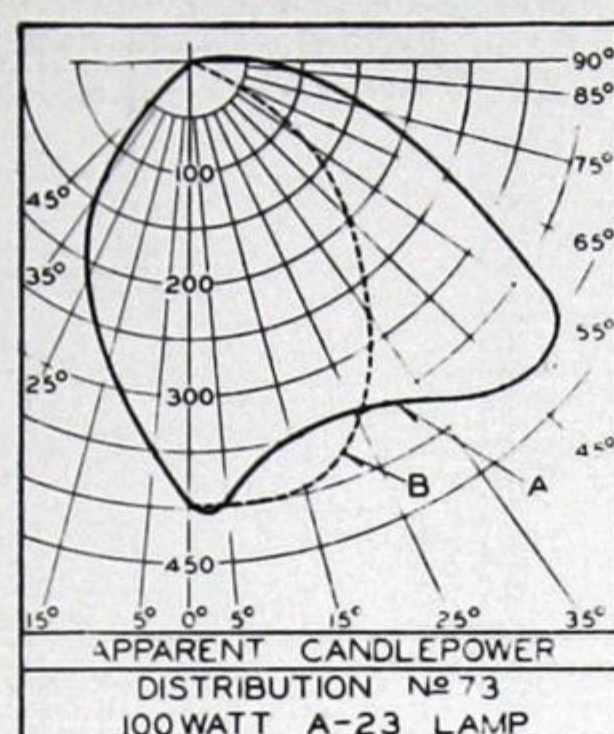
For Plaster Ceiling—Use Plaster Ring No. 4-B.

For Protection of Roundel—Use Wire Guard No. WG-4.

PERMAFLECTOR NO. 73 SERIES



No. 73



Application—For low, deep windows, 4 to 7 feet high, in which trim is carried the full height. Also excellent for many other display lighting uses such as rug racks, interior wall displays, art galleries, museums, and indirect cove lighting.

Minimum Spacings: for

Mounting on Conduit No. 1 or No. 12—7½ inches on centers.

Mounting on Knockout Strip No. KO-1—9 inches on centers.

Dimensions:

Height Permaflector No. 73—5½ inches.

Bottom Opening Circular—Diameter, 6¾ inches.

Lamp Size—

60 watt A-19; 75 watt A-21; 100 watt A-23.

PERMAFLECTOR NO. 73

Standard Quantity—10

Weight, Approx. 10 lbs.

Retail Price, Each

\$2.55

Code

SHOSETREE

Additional Equipment—for use with No. 73.

Holder:

For Grooved Porcelain Socket—Use

2¼" Form "SR" Holder for 60 Watt A-19 Lamp.

2¼" Form "LR" Holder for 100 Watt A-23 Lamp.

For Porcelain Socket No. 1 or KO-8—Use

2¼" Form "S" Holder for 60 Watt A-19 Lamp.

2¼" Form "SL" Holder for 75 Watt A-21 Lamp.

2¼" Form "L" Holder for 100 Watt A-23 Lamp.

May Be Installed With: Outlet Box Cover Assembly No. B-1-3¼ or B-1-4 with 2¼" Form "S," "SL" or "L" Holder.

May Be Mounted On:

Conduit No. 1 or Knockout Strip No. KO-1 with 2¼" Form "S," "SL" or "L" Holder.

Conduit No. 12 with 2¼" Form "SR" or "LR" Holder.

For Colored Lighting: Use

Color-Lite No. 4-A or 4-ADB for external mounting.

COMBINATION NO. 73-4

(Hinged Ceiling Roundel Installation)

(Use 100 Watt A-23 Lamp)

Consists of:

Permaflector No. 73.

Outlet Box Cover Assembly No. B-1-3¼-L.

Hinged Ceiling Roundel No. 4-B.

Standard Quantity—10

Weight, Approx. 30 lbs.

Retail Price, Each

\$6.25

Code

SETREFO

Opening to be Cut in Ceiling, Circular—Diam., 7⅞ inches.

Additional Equipment—for use with No. 73-4.

For Plaster Ceiling—Use Plaster Ring No. 4-B.

For Protection of Roundel—Use Wire Guard No. WG-4.

COMBINATION NO. 73-5

(Hinged Concentric Louver Installation)

(Use 100 Watt A-23 Lamp)

Consists of:

Permaflector No. 73.

Outlet Box Cover Assembly No. B-1-3¼-L.

Hinged Concentric Louver No. 4-B.

Standard Quantity—10

Weight, Approx. 25 lbs.

Retail Price, Each

\$6.25

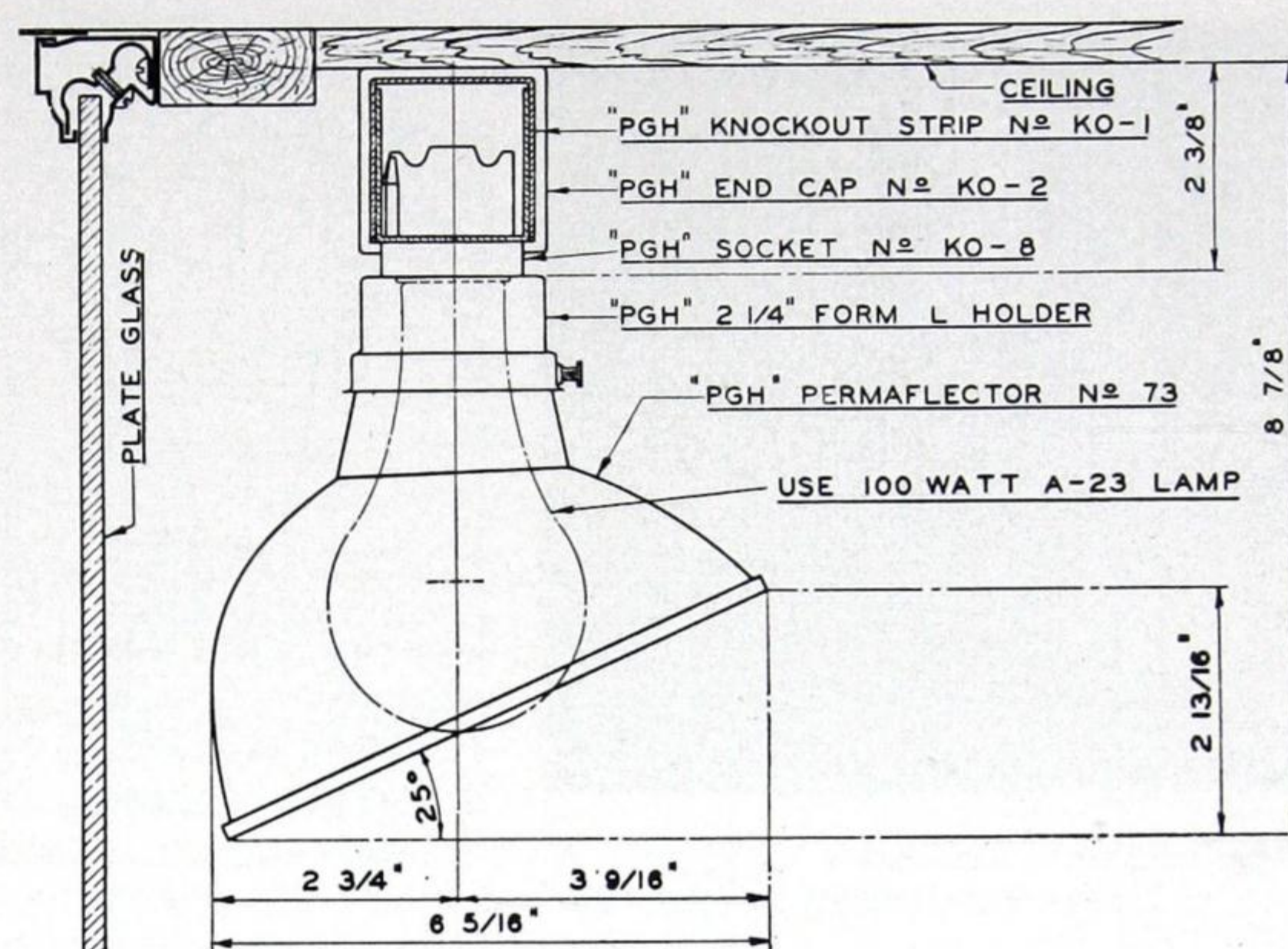
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SETREFI

Opening to be Cut in Ceiling, Circular—Diam., 7⅞ inches.

Additional Equipment—for use with No. 73-5.

For Plaster Ceiling—Use Plaster Ring No. 4-B.



No. 73 External Mounting

COMBINATION NO. 73-2

(For Recessed Installation)

(Use 100 Watt A-23 Lamp)

Consists of:

Permaflector No. 73.

Outlet Box Cover Assembly No. B-1-3¼-L.

Flush Mounting Ring No. 73.

Standard Quantity—10

Weight, Approx. 19 lbs.

Retail Price, Each

\$3.63

Code

SETRETU

Opening to be Cut in Ceiling, Circular—Diam., 7 inches.

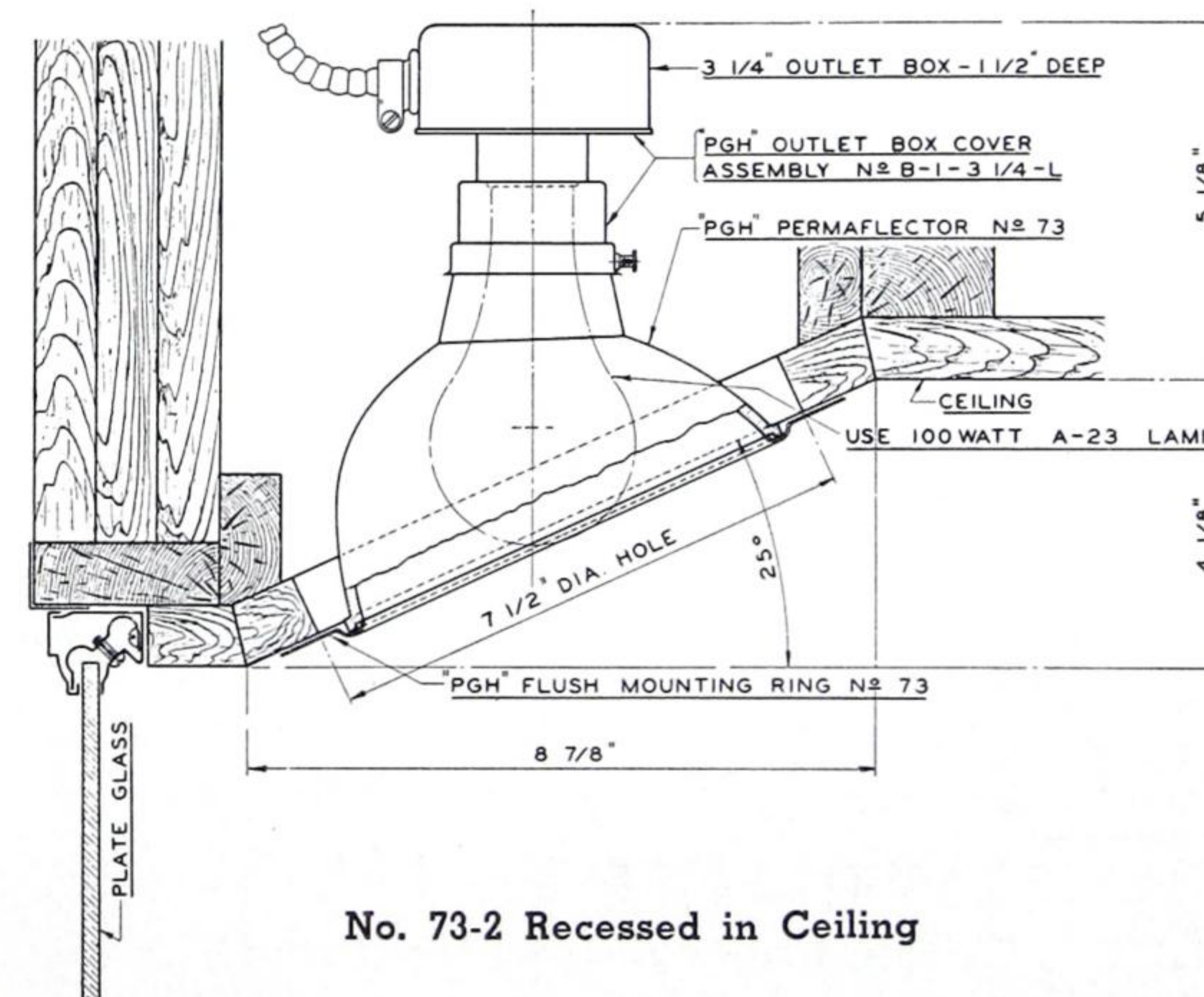
Additional Equipment—for use with No. 73-2.

For Plaster Ceiling—Use Plaster Ring No. 77.

For Colored Lighting—Use Color-Lite No. 41 or No. 41-DB.

For Ceiling Roundel (Not Hinged)—Use

Ceiling Roundel No. 41 with or without Wire Guard No. WG-4.

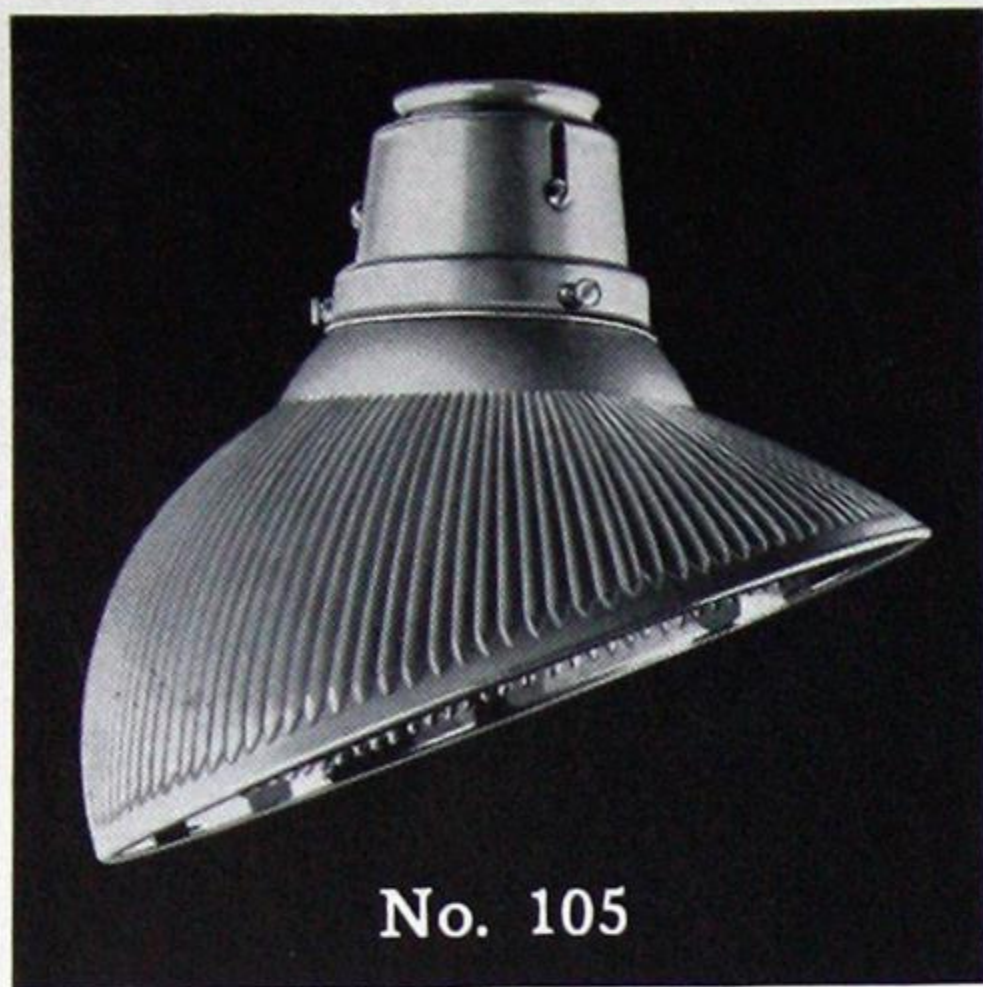


No. 73-2 Recessed in Ceiling

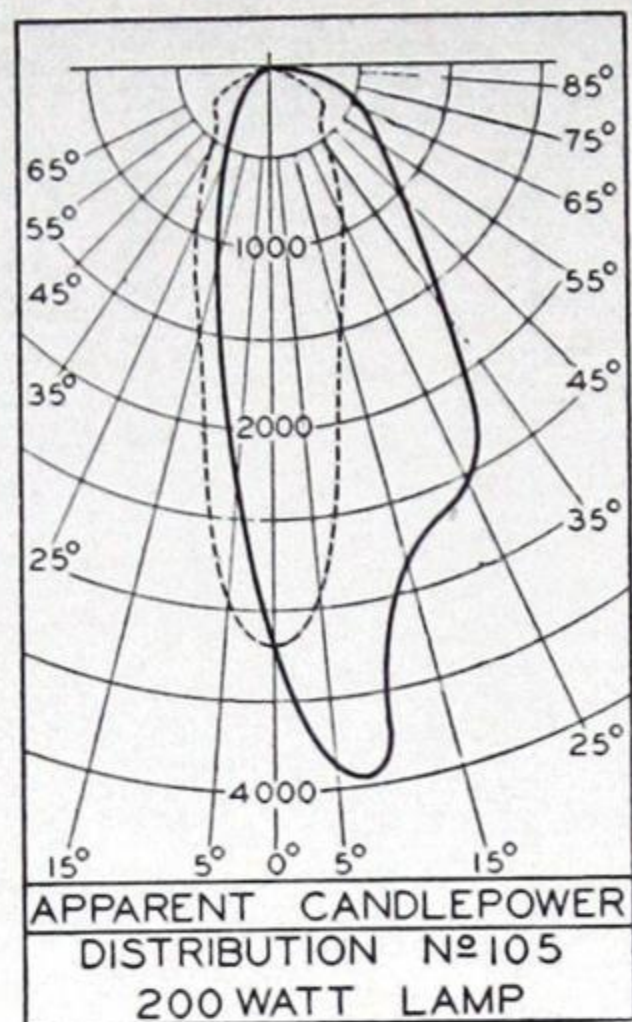
Permaflectors for 3-Lite Lamps

The Permaflector line is the largest available for use with 3-Lite lamps. Any of the Permaflectors for 300 or 500 watt general service lamps, which regularly come equipped with Mogul Socket No. 4, are also available with 3-Lite Mogul Socket No. 5.

PERMAFLECTOR NO. 105 SERIES



No. 105



Application—For deep windows, 7 to 10 feet high, in which trim is carried the full height. The exceptional concentration of light close to glass line makes this the ideal reflector for these windows. For other applications similar to No. 110.

Minimum Spacings: for
Mounting on Conduit No. 1 or No. 12—10½ inches on centers.
Mounting on Knockout Strip No. KO-1—12 inches on centers.

Dimensions:
Height with Adapter No. 1234 Extended—9¾ inches.
Height with Adapter No. 1234 Compressed—8¼ inches.
Height Permalector No. 105-GO—6½ inches.
Bottom Opening Circular—Diameter, 9½ inches.

Lamp Size—
150 watt A-25, Adapter in compressed position.
200 watt PS-30, Adapter in extended position.

PERMAFLECTOR NO. 105

Consists of:
Permalector No. 105-GO and Adapter No. 1234.
Standard Quantity—10 **Weight, Approx.** 20 lbs.
Retail Price, Each\$4.00
CodeSHOHUNFI

Additional Equipment—for use with No. 105.
May Be Installed With:
Outlet Box Cover Assembly No. B-1-3¼ or B-1-4.
May Be Mounted On:
Conduit No. 1 or Knockout Strip No. KO-1.
For Colored Lighting: Use
Color-Lite No. 21 or No. 21-DB for external mounting.
For Louvered Lighting: Use
Parallel Louver No. EM-54 for external mounting.
Concentric Louver No. EM-54-C for external mounting.

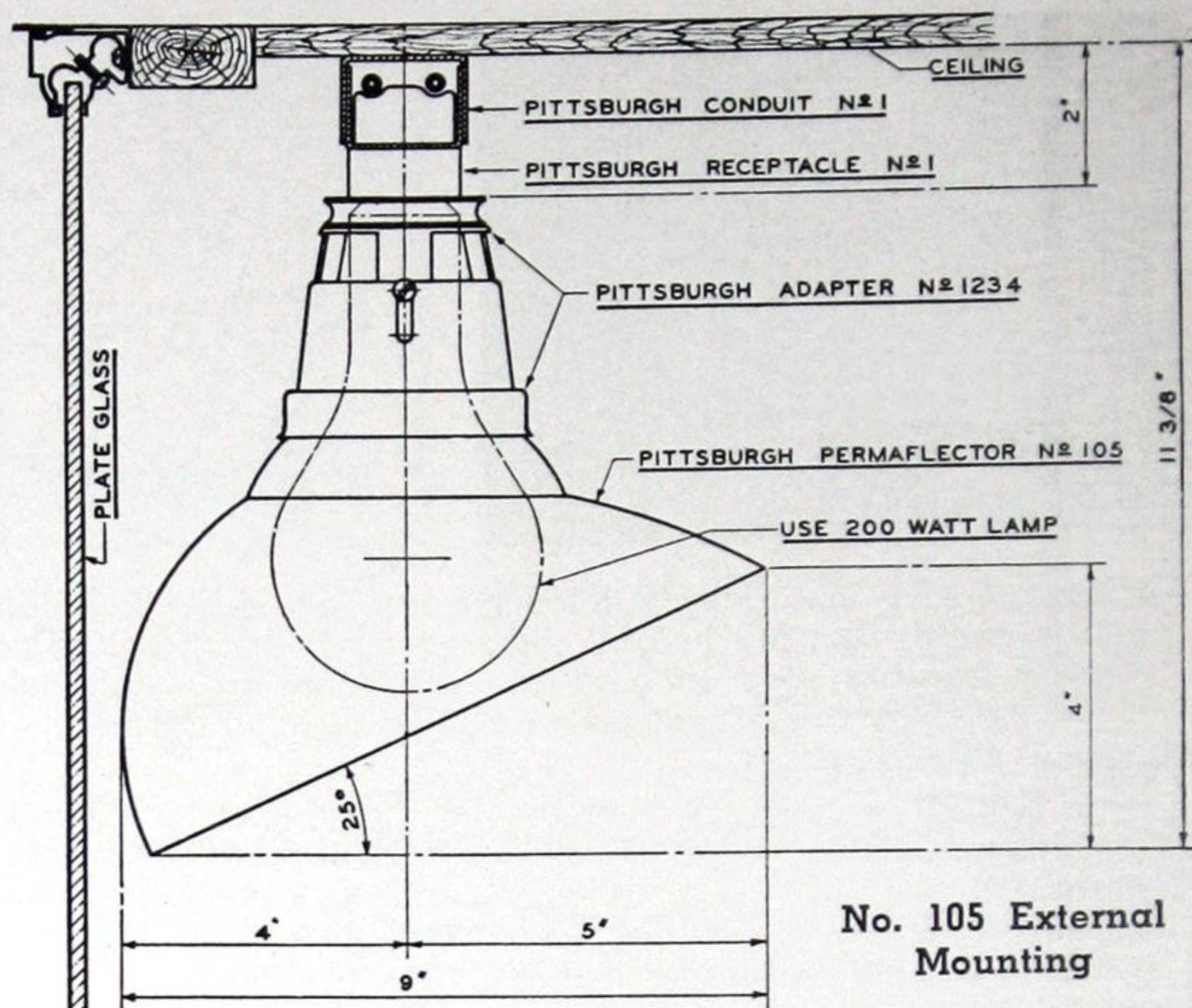
PERMAFLECTOR NO. 105-R

Consists of:
Permalector No. 105-GO and Adapter No. 1234-R for use where grooved porcelain sockets are installed.
Standard Quantity—10 **Weight, Approx.** 20 lbs.
Retail Price, Each\$4.00
CodeSHOHUNFIR
Additional Equipment—for use with No. 105-R.
May Be Mounted On—Conduit No. 12.
For Colored Lighting—Same as for No. 105.
For Louvered Lighting—Same as for No. 105.

COMBINATION NO. 105-4

(Hinged Ceiling Roundel Installation)

Consists of:
Permalector No. 105.
Outlet Box Cover Assembly No. B-1-3¼.
Hinged Ceiling Roundel No. 6-B.
Standard Quantity—10 **Weight, Approx.** 52 lbs.
Retail Price, Each\$9.05
CodeONOFIFO
Opening to be Cut in Ceiling, Circular—Diam., 10¾ inches.
Additional Equipment—for use with No. 105-4.
For Plaster Ceiling—Use Plaster Ring No. 6-B.
For Protection of Roundel—Use Wire Guard No. WG-6.



No. 105 External Mounting

COMBINATION NO. 105-2

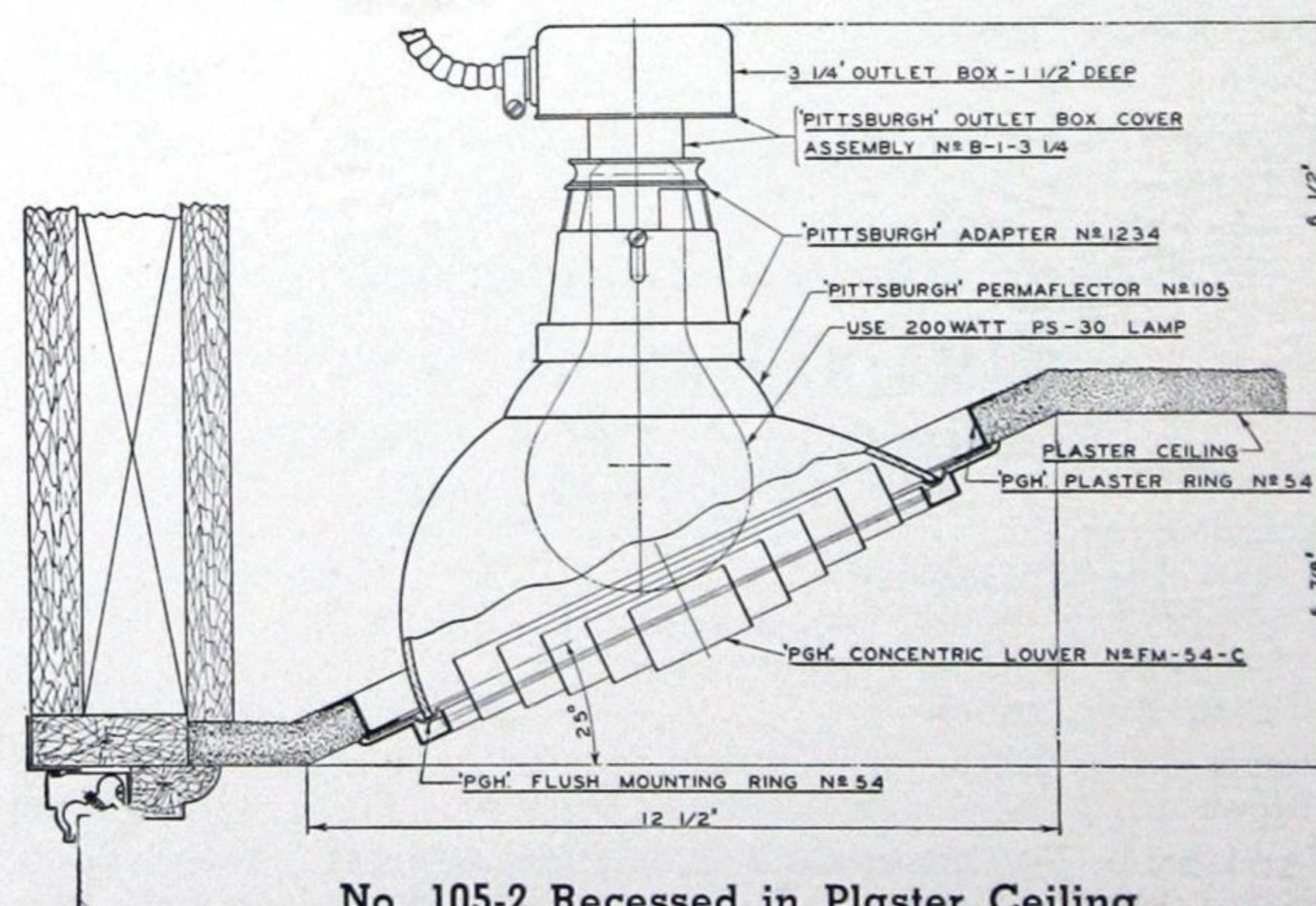
(For Recessed Installation)

Consists of:
Permalector No. 105.
Outlet Box Cover Assembly No. B-1-3¼.
Flush Mounting Ring No. 54.
Standard Quantity—10 **Weight, Approx.** 29 lbs.
Retail Price, Each\$4.95
CodeONOFITU
Opening to be Cut in Ceiling, Circular—Diam., 9¾ inches.
Additional Equipment—for use with No. 105-2.
For Plaster Ceiling—Use Plaster Ring No. 54.
For Colored Lighting—Use Color-Lite No. 21 or No. 21-DB.
For Ceiling Roundel (Not Hinged)—Use
Ceiling Roundel No. 21 with or without Wire Guard No. WG-6.
For Louvered Lighting—Use
Parallel Louver No. FM-54.
Concentric Louver No. FM-54-C.

COMBINATION NO. 105-5

(Hinged Concentric Louver Installation)

Consists of:
Permalector No. 105.
Outlet Box Cover Assembly No. B-1-3¼.
Hinged Concentric Louver No. 6-B.
Standard Quantity—10 **Weight, Approx.** 44 lbs.
Retail Price, Each\$8.70
CodeONOFIFI
Opening to be Cut in Ceiling, Circular—Diam., 10¾ inches.
Additional Equipment—for use with No. 105-5.
For Plaster Ceiling—Use Plaster Ring No. 6-B.

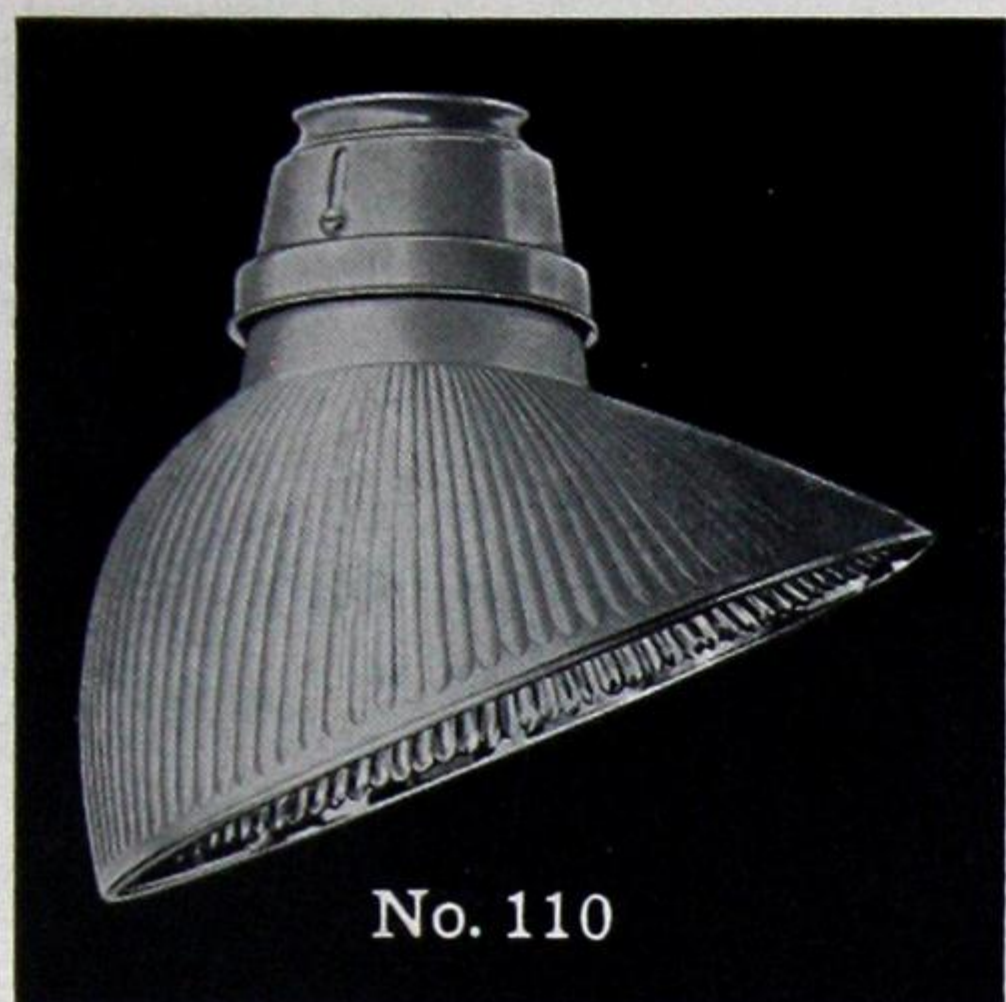


No. 105-2 Recessed in Plaster Ceiling and Louvered.

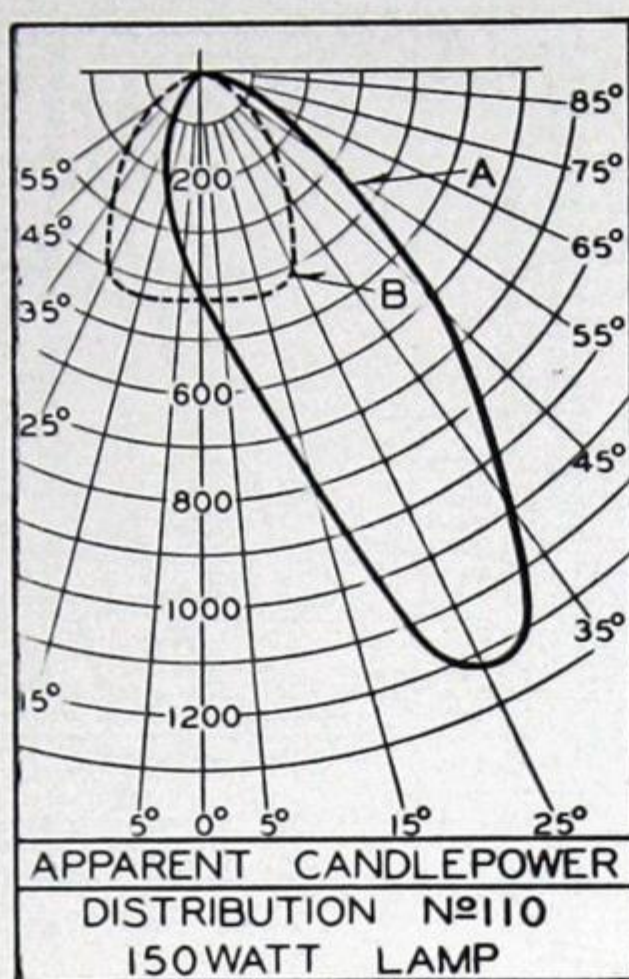


PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA

PERMAFLECTOR NO. 110 SERIES



No. 110



Application—For low, deep windows, 4 to 9 feet high, in which trim is carried the full height. In corner windows equip with concentric louvers. Also excellent for many other display lighting uses such as rug racks, interior wall displays, art galleries, museums, and indirect cove lighting.

Minimum Spacings: for

Mounting on Conduit No. 1 or No. 12—9 inches on centers.
Mounting on Knockout Strip No. KO-1—9 inches on centers.

Dimensions:

Height with Adapter No. 1256 Extended—8 $\frac{1}{4}$ inches.
Height with Adapter No. 1256 Compressed—7 $\frac{3}{8}$ inches.
Height Permalector No. 110-GO—6 $\frac{1}{8}$ inches.
Bottom Opening Circular—Diameter, 8 $\frac{1}{2}$ inches.

Lamp Size—

100 watt A-23, Adapter in compressed position.
150 watt A-25, Adapter in extended position.

PERMAFLECTOR NO. 110

Consists of:

Permalector No. 110-GO and Adapter No. 1256.

Standard Quantity—10

Weight, Approx. 17 lbs.

Retail Price, Each

\$3.50

Code

SHOHUNTEN

Additional Equipment—for use with No. 110.

May Be Installed With:

Outlet Box Cover Assembly No. B-1-3 $\frac{1}{4}$ or B-1-4.

May Be Mounted On:

Conduit No. 1 or Knockout Strip No. KO-1.

For Colored Lighting: Use

Color-Lite No. 6 or No. 6-DB for external mounting.

For Louvered Lighting: Use

Parallel Louver No. EM-55 for external mounting.

Concentric Louver No. EM-55-C for external mounting.

PERMAFLECTOR NO. 110-R

Consists of:

Permalector No. 110-GO and Adapter No. 1256-R for use where grooved porcelain sockets are installed.

Standard Quantity—10

Weight, Approx. 17 lbs.

Retail Price, Each

\$3.50

Code

SHOHUNTERN

Additional Equipment—for use with No. 110-R.

May Be Mounted On—Conduit No. 12.

For Colored Lighting—Same as for No. 110.

For Louvered Lighting—Same as for No. 110.

COMBINATION NO. 110-4

(Hinged Ceiling Roundel Installation)

Consists of:

Permalector No. 110.

Outlet Box Cover Assembly No. B-1-3 $\frac{1}{4}$.

Hinged Ceiling Roundel No. 1-B.

Standard Quantity—10

Weight, Approx. 44 lbs.

Retail Price, Each

\$7.70

Code

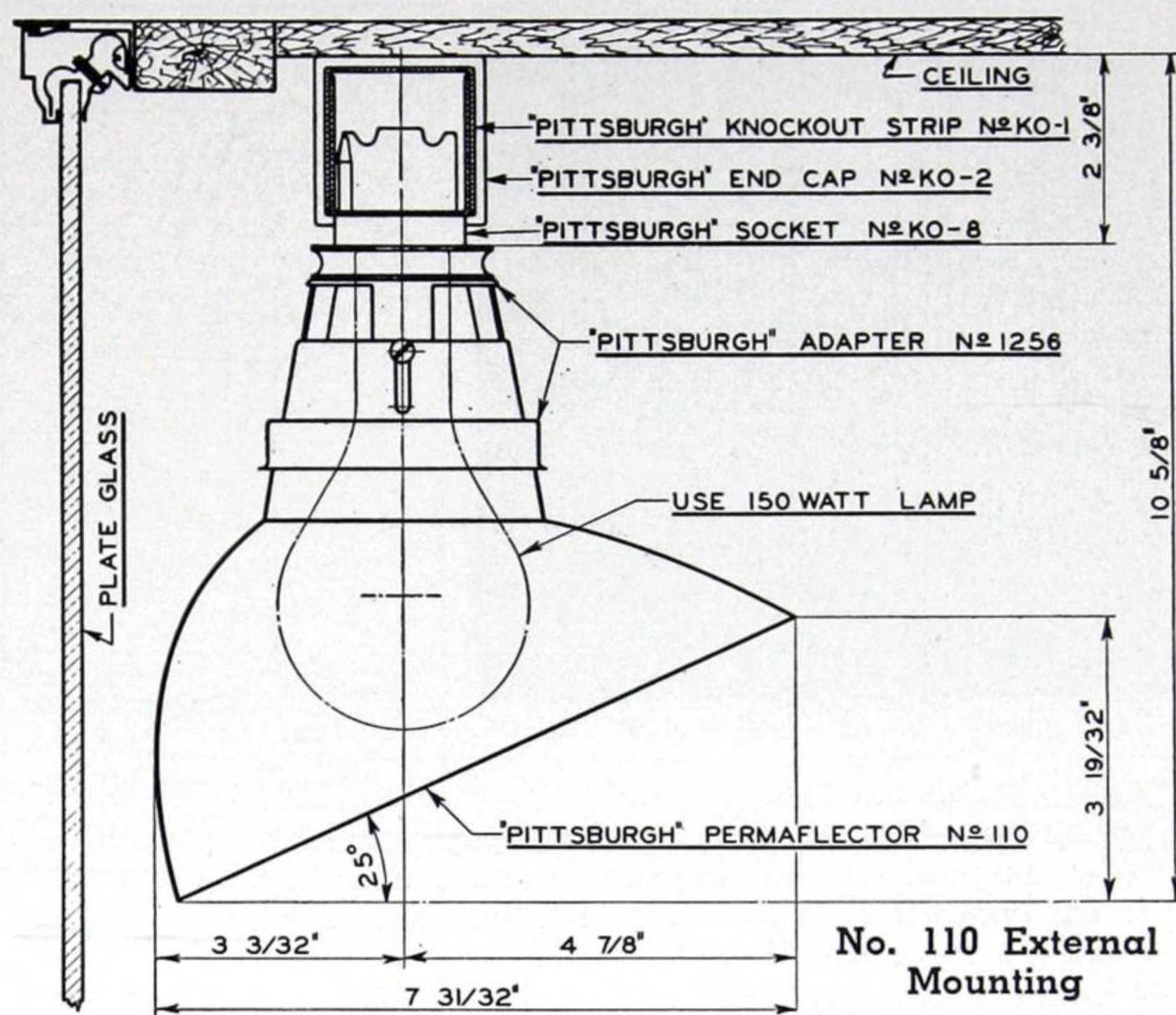
ONTENFO

Opening to be Cut in Ceiling, Circular—Diam., 9 $\frac{3}{4}$ inches.

Additional Equipment—for use with No. 110-4.

For Plaster Ceiling—Use Plaster Ring No. 1-B.

For Protection of Roundel—Use Wire Guard No. WG-1.



COMBINATION NO. 110-2

(For Recessed Installation)

Consists of:

Permalector No. 110.

Outlet Box Cover Assembly No. B-1-3 $\frac{1}{4}$.

Flush Mounting Ring No. 55.

Standard Quantity—10

Weight, Approx. 24 lbs.

Retail Price, Each

\$4.37

Code

ONTENTU

Opening to be Cut in Ceiling, Circular—Diam., 8 $\frac{3}{4}$ inches.

Additional Equipment—for use with No. 110-2.

For Plaster Ceiling—Use Plaster Ring No. 55-A.

For Colored Lighting—Use Color-Lite No. 61 or No. 61-DB.

For Ceiling Roundel (Not Hinged)—Use

Ceiling Roundel No. 62 with or without Wire Guard No. WG-1.

For Louvered Lighting—Use

Parallel Louver No. FM-55.

Concentric Louver No. FM-55-C.

COMBINATION NO. 110-5

(Hinged Concentric Louver Installation)

Consists of:

Permalector No. 110.

Outlet Box Cover Assembly No. B-1-3 $\frac{1}{4}$.

Hinged Concentric Louver No. 1-B.

Standard Quantity—10

Weight, Approx. 36 lbs.

Retail Price, Each

\$7.70

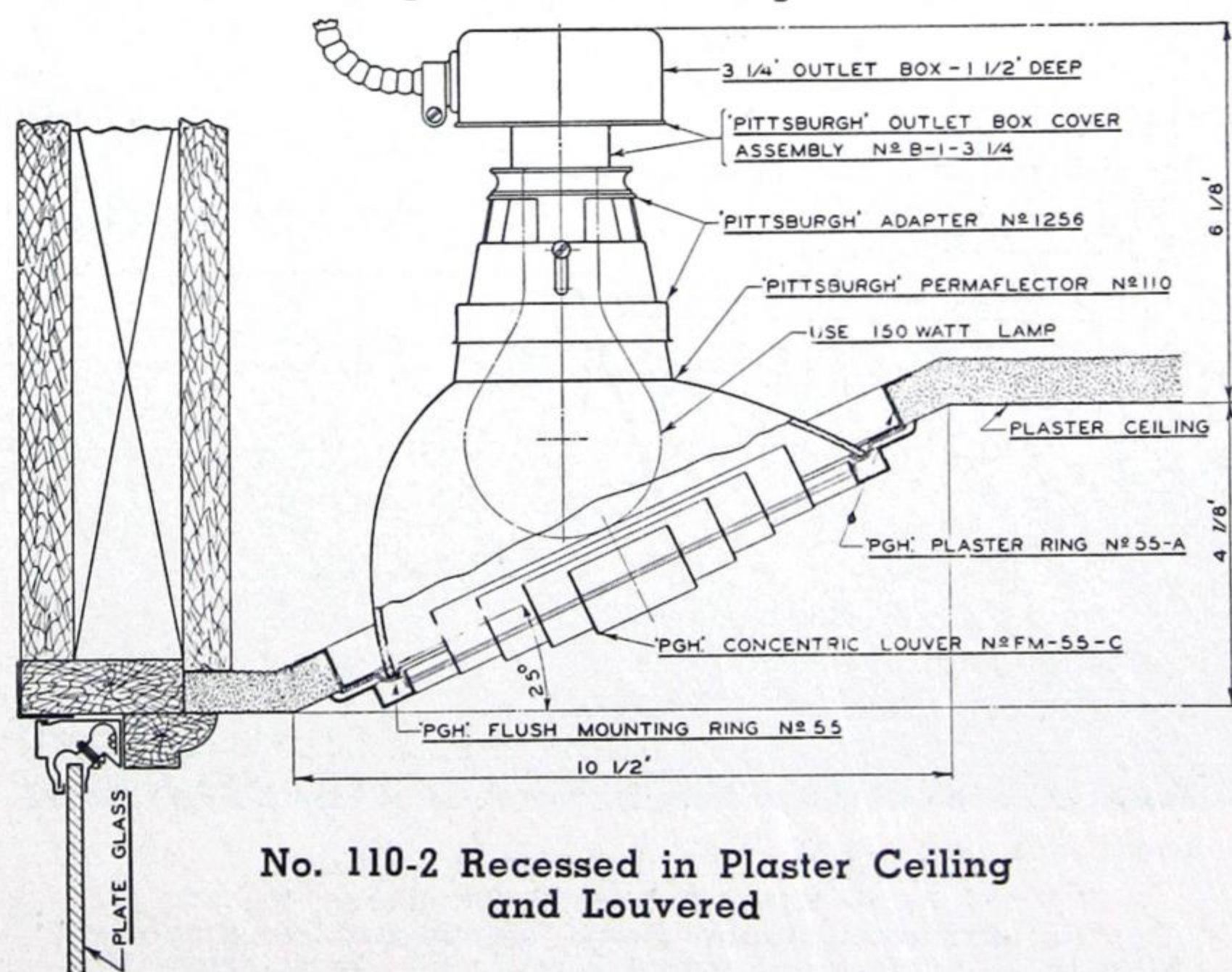
Code

ONTENFI

Ceiling Space Required—Same as No. 110-4.

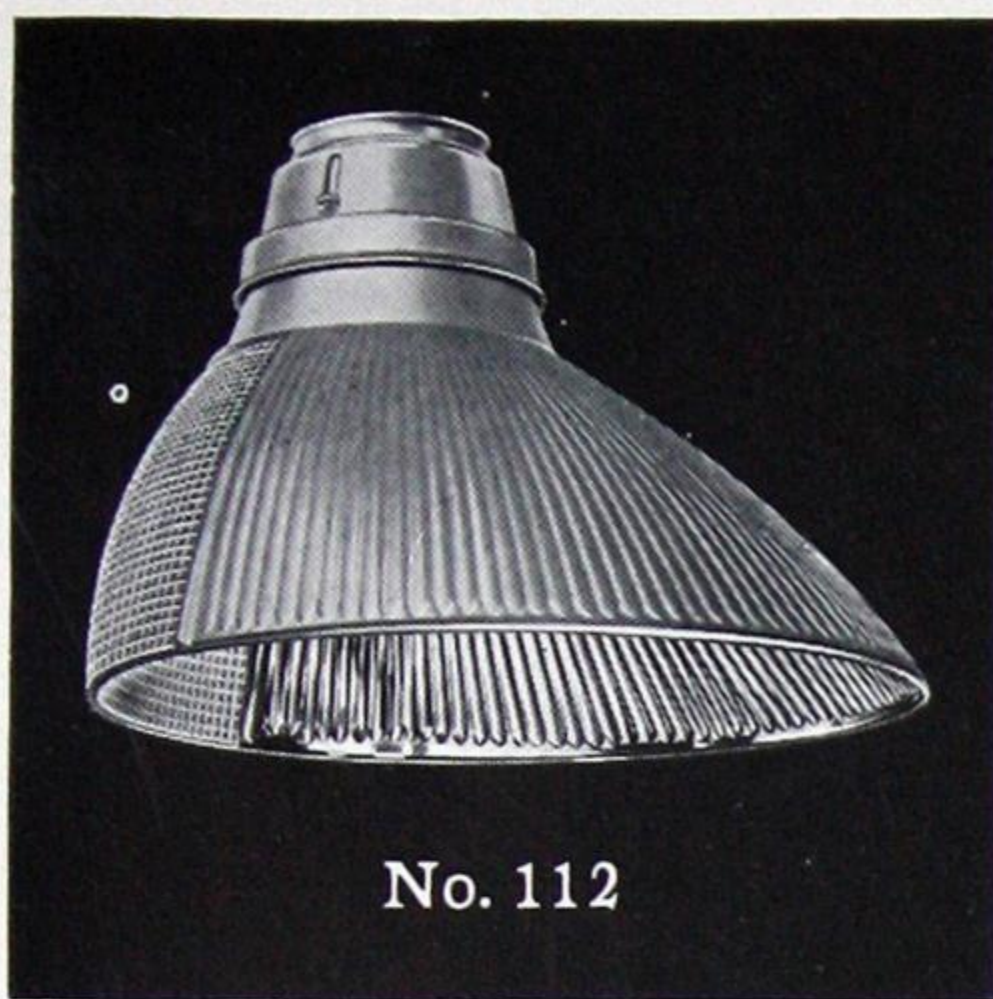
Additional Equipment—for use with No. 110-5.

For Plaster Ceiling—Use Plaster Ring No. 1-B.

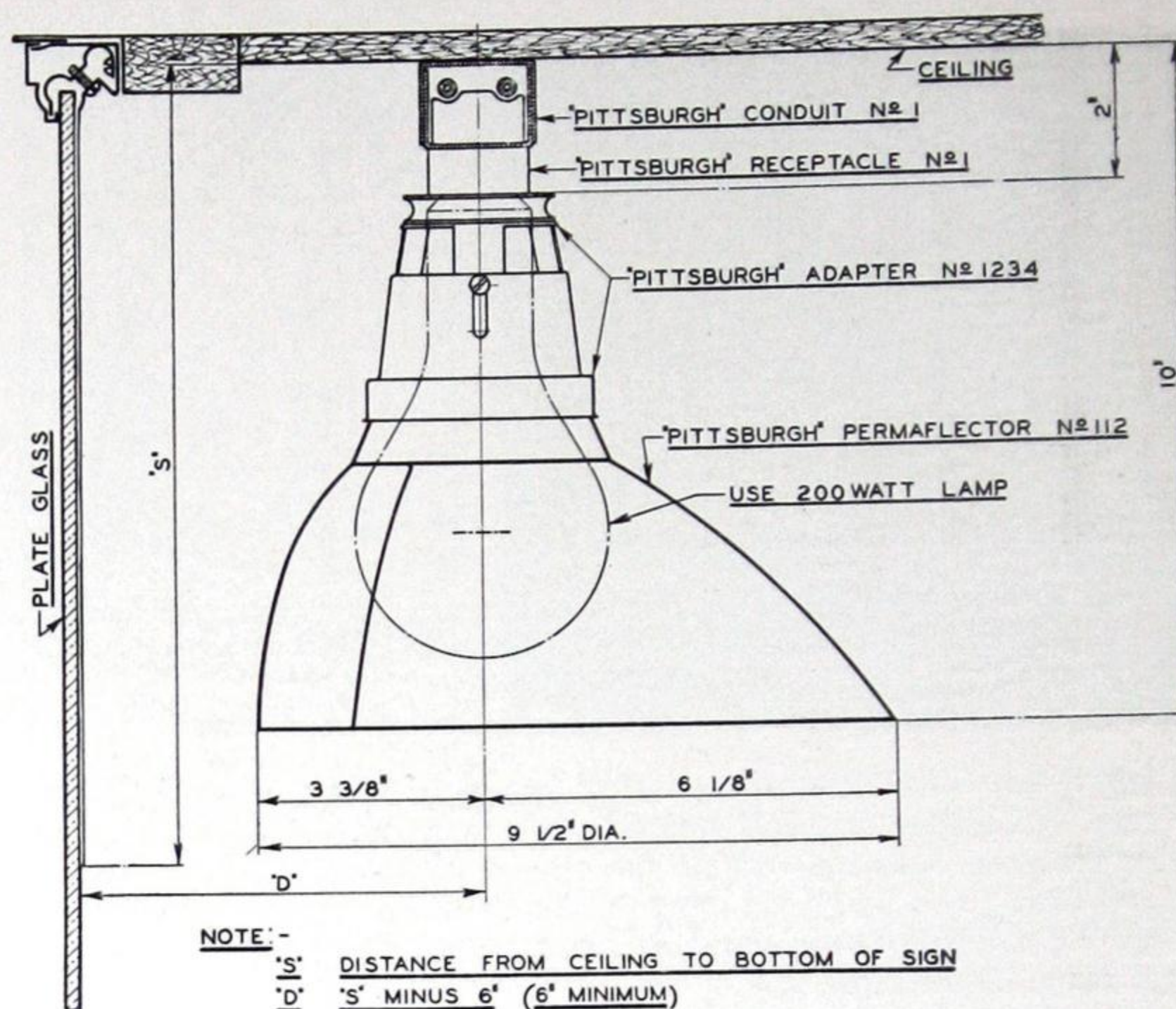
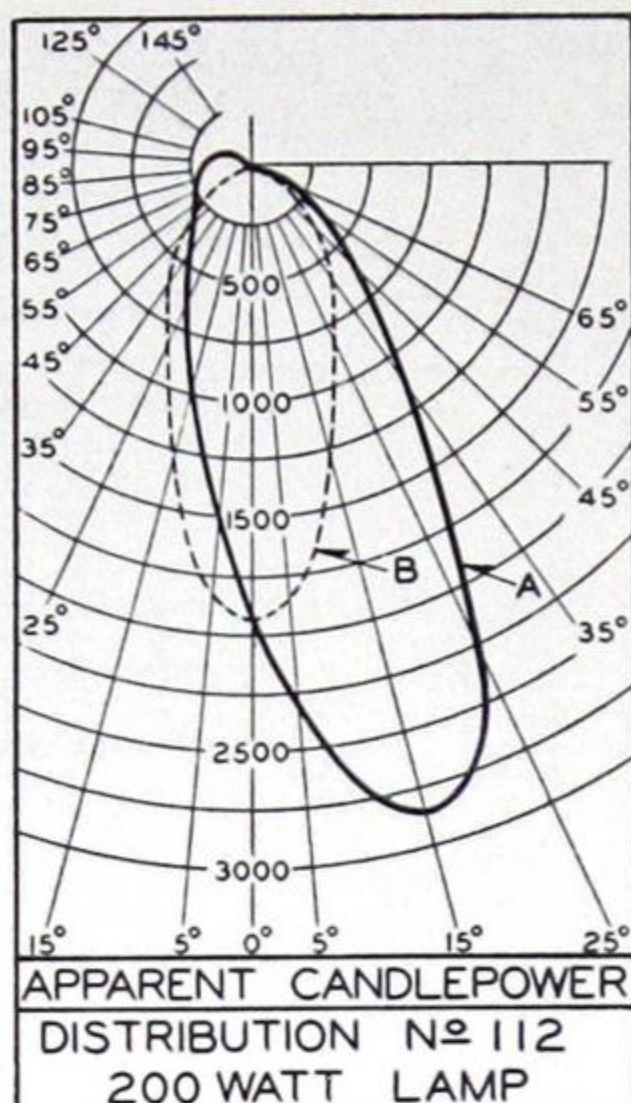


No. 110-2 Recessed in Plaster Ceiling and Louvered

PERMAFLECTOR NO. 112 AND 112-R



No. 112



Permaflector No. 112 General Arrangement

PERMAFLECTOR NO. 112-R

Consists of:

Permaflector No. 112-GO and Adapter No. 1234-R for use where grooved porcelain sockets are installed.

Standard Quantity—8

Weight, Approx. 18 lbs.

Retail Price, Each\$4.50

CodeHUNTWELFIR

Additional Equipment—for use with No. 112-R.

May Be Mounted On: Conduit No. 12.

For Colored Lighting—Same as for No. 112.

For Louvered Lighting—Same as for No. 112.

SPACING RECOMMENDED FOR DUAL SERVICE

With maximum depth of sign, in.	Mounting distance of receptacles from plate glass, inches	Maximum spacing between reflectors, in.
12	6	12
13	7	14
14	8	16
15	9	18
16	10	20
17	11	22
18	12	24

Application—For the dual service of lighting sign at top of window as well as the display. Bottom opening horizontal. If it be desired to recess No. 112 use same auxiliary equipment as for Permaflector No. 54.

Minimum Spacings: for

Mounting on Conduit No. 1 or No. 12—10½ inches on centers.

Mounting on Knockout Strip No. KO-1—12 inches on centers.

Dimensions:

Height with Adapter No. 1234 Extended—8 inches.

Height with Adapter No. 1234 Compressed—7½ inches.

Height Permaflector No. 112-GO—5¼ inches.

Bottom Opening Circular—Diameter, 9½ inches.

Lamp Size—

150 watt A-25, Adapter in compressed position.

200 watt PS-30, Adapter in extended position.

If desired for use with 100 watt A-23 lamp, substitute Adapter No. 1256 or 1256-R.

PERMAFLECTOR NO. 112

Consists of:

Permaflector No. 112-GO and Adapter No. 1234.

Standard Quantity—8

Weight, Approx. 18 lbs.

Retail Price, Each\$4.50

CodeHUNTWELFOR

Additional Equipment—for use with No. 112.

May Be Installed With:

Outlet Box Cover Assembly No. B-1-3¼ or No. B-1-4.

May Be Mounted On:

Conduit No. 1 or Knockout Strip No. KO-1.

For Colored Lighting—Use

Color-Lite No. 2 or No. 2-DB for external mounting.

For Louvered Lighting: Use

Parallel Louver No. EM-54 for external mounting.

Eccentric Louver No. EM-99-CA for external mounting.



Permaflectors No. 500 Series Installed

Architect—Marks & Simboli, Pittsburgh, Pa.

Reichart Furniture Store, Washington, Pa.

Electrical Contractor—Crawford Electric Co., Washington, Pa.



Permaflector No. 500 Series Installed

Architect—Starett & Van Vleck, New York City

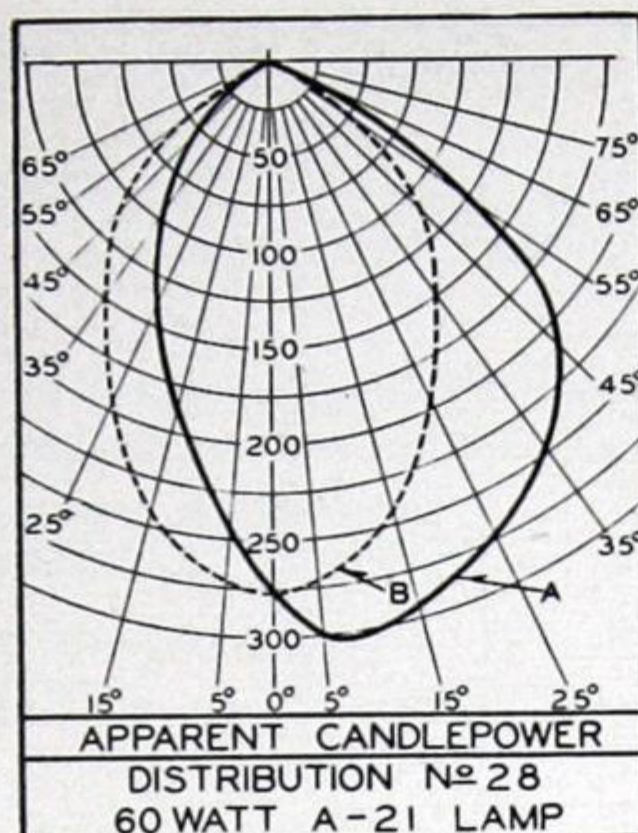
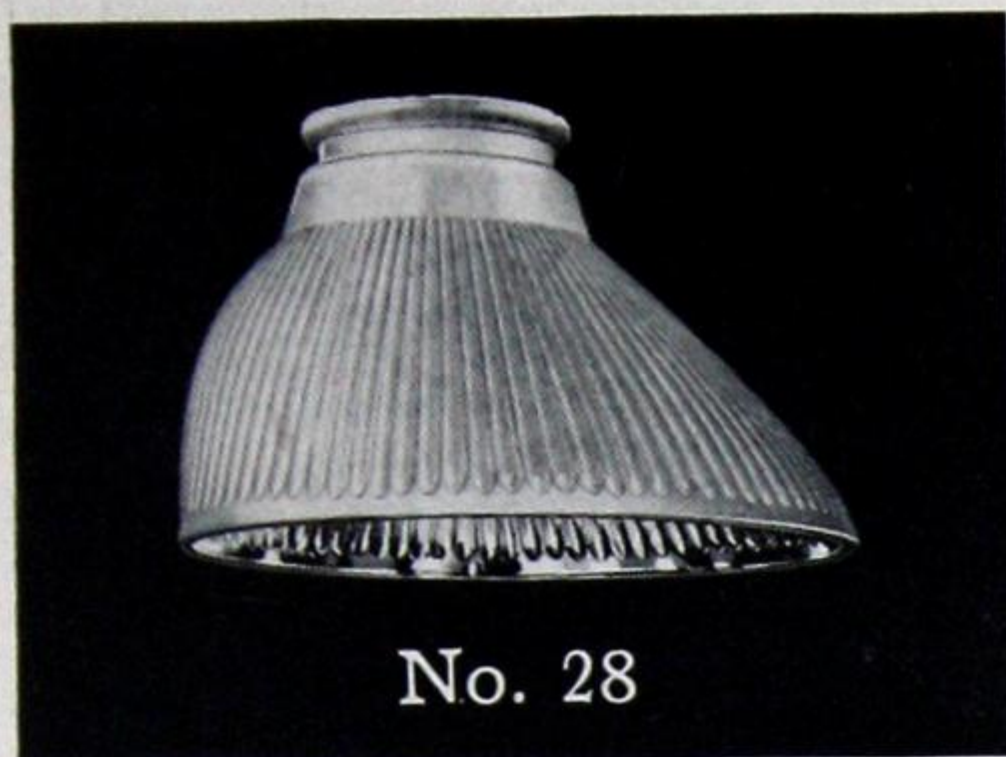
J. N. Adam Company, Niagara Falls, N. Y.

Electrical Contractor—Volker Bros., Inc., Buffalo, N. Y.



PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA

PERMAFLECTOR NO. 28 SERIES



Application—For tall and shallow display cases. Asymmetric in distribution; maximum candle-power occurs at 10°.

Minimum Spacings: for

Mounting on Conduit No. 1 or No. 12—6 inches on centers.
Mounting on Knockout Strip No. KO-1—6 inches on centers.

Dimensions:

Height Permaflector No. 28—3 $\frac{7}{8}$ inches.

Bottom Opening Circular—Diam., 5 $\frac{1}{2}$ inches.

Lamp Size—25 Watt A-19; 60 Watt A-19.

PERMAFLECTOR NO. 28

Standard Quantity—20

Weight, Approx. 16 $\frac{1}{2}$ lbs.

Retail Price, Each\$1.75

CodeTUATE

Additional Equipment—for use with No. 28.

Holder:

For Grooved Porcelain Socket—Use

2 $\frac{1}{4}$ " Form "SR" Holder for 25 Watt A-19 Lamp.

For Porcelain Sockets No. 1 or No. KO-8—Use

2 $\frac{1}{4}$ " Form "S" Holder for 25 Watt A-19 Lamp.

2 $\frac{1}{4}$ " Form "SL" Holder for 60 Watt A-19 Lamp.

May Be Installed With: Outlet Box Cover Assembly No. B-1-3 $\frac{1}{4}$ or B-1-4 with 2 $\frac{1}{4}$ " Form "S" or "SL" Holder.

May Be Mounted On:

Conduit No. 1 or Knockout Strip No. KO-1 with 2 $\frac{1}{4}$ " Form "S" or "SL" Holder.

Conduit No. 12 with 2 $\frac{1}{4}$ " Form "SR" Holder.

COMBINATION NO. 28-2

(For Recessed Installation)

(Use 60 Watt A-19 Lamp)

Consists of:

Permaflector No. 28.

Outlet Box Cover Assembly No. B-1-3 $\frac{1}{4}$ -SL.

Flush Mounting Ring No. 28.

Standard Quantity—20

Weight, Approx. 30 lbs.

Retail Price, Each\$2.65

CodeTUATU

Ceiling Space Required:

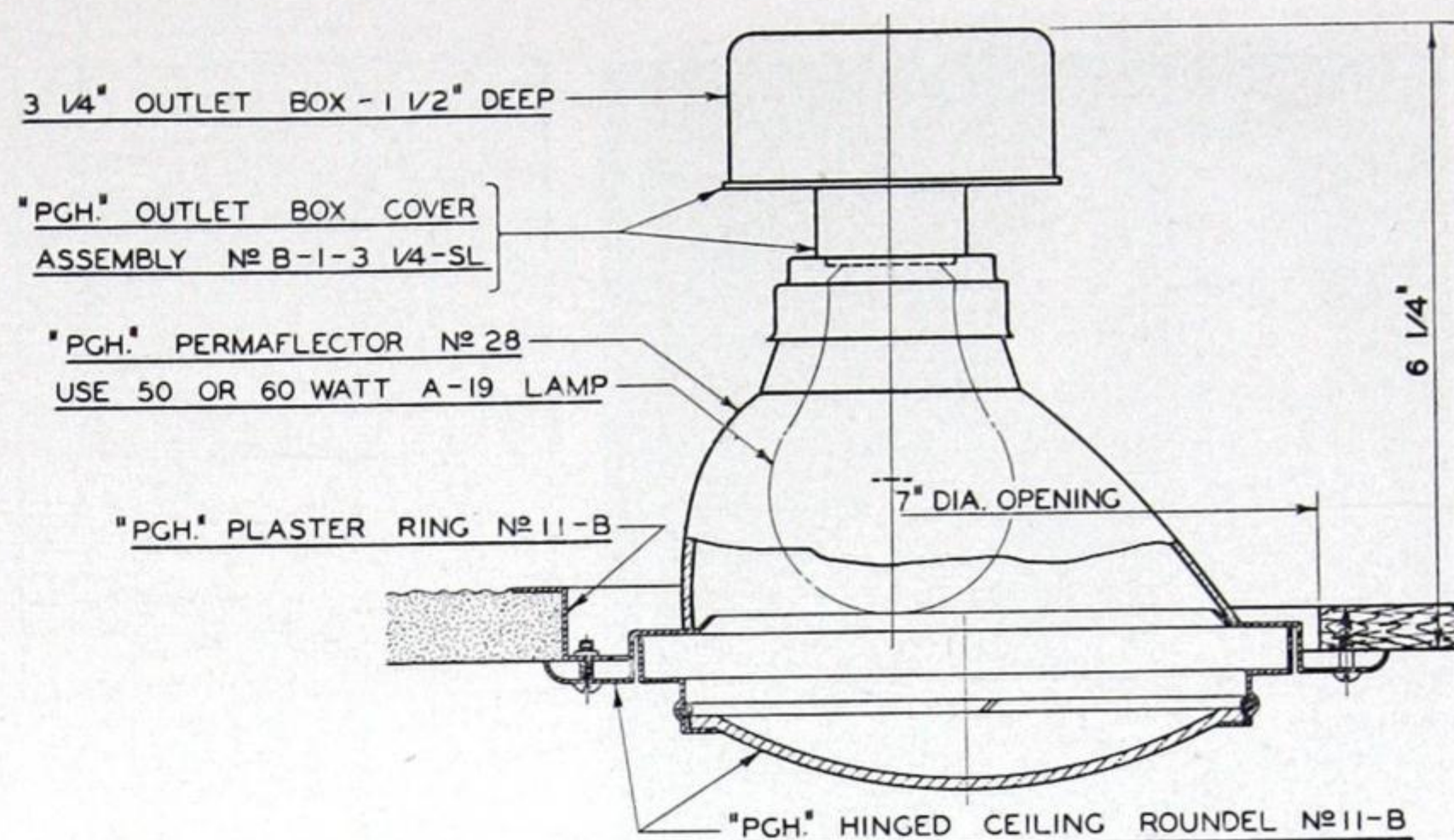
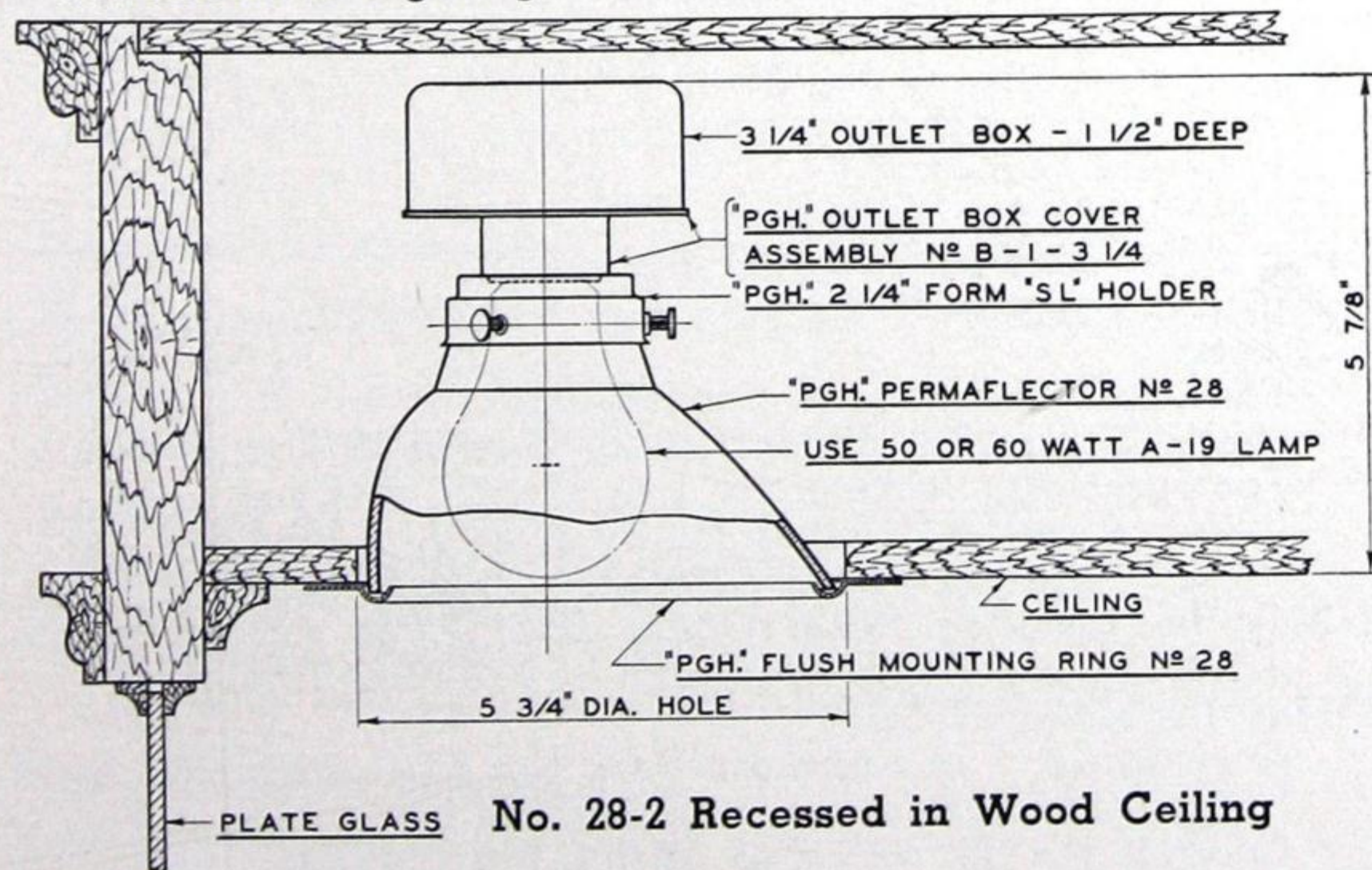
Space Above Ceiling Line—5 $\frac{7}{8}$ inches.

Opening to be Cut in Ceiling, Circular—Diam., 5 $\frac{3}{4}$ inches.

Additional Equipment—for use with No. 28-2.

For Plaster Ceiling—Use Plaster Ring No. 28.

For Louvered Lighting—Use Concentric Louver No. FM-28-C.



HALF SECTION
THRU PLASTER CEILING

HALF SECTION
THRU WOOD CEILING

No. 28-4 Recessed in Ceiling

COMBINATION NO. 28-4

(Hinged Ceiling Roundel Installation)

(Use 60 Watt A-19 Lamp)

Consists of:

Permaflector No. 28.

Outlet Box Cover Assembly No. B-1-3 $\frac{1}{4}$ -SL.

Hinged Ceiling Roundel No. 11-B.

Standard Quantity—20

Weight, Approx. 50 lbs.

Retail Price, Each\$5.10

CodeTUATFO

Ceiling Space Required:

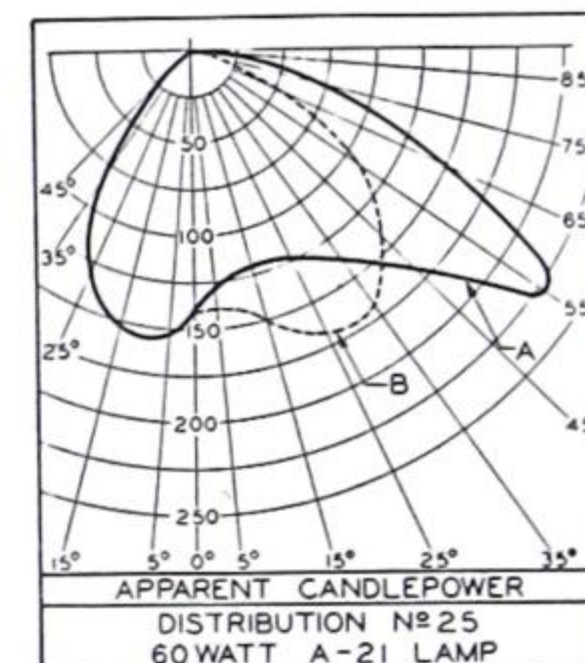
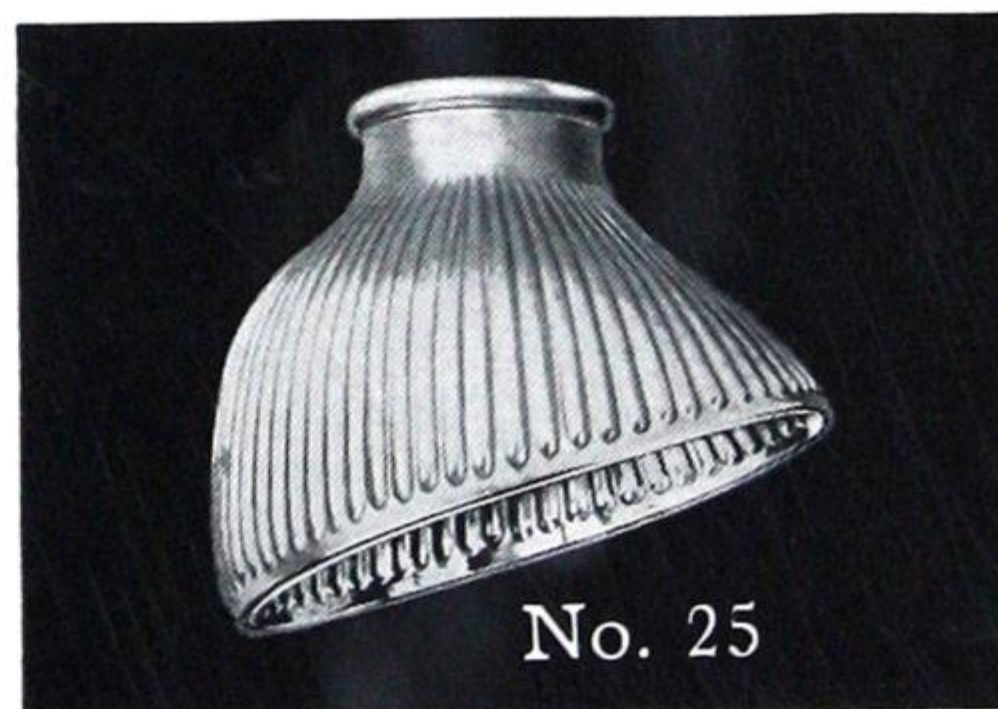
Space Above Ceiling Line—6 $\frac{1}{4}$ inches.

Opening to be Cut in Ceiling, Circular—Diam., 7 inches.

Additional Equipment—for use with No. 28-4.

For Plaster Ceiling—Use Plaster Ring No. 11-B.

PERMAFLECTOR NO. 25



No. 25

Standard Quantity—20

Weight, Approx. 12 lbs.

Retail Price, Each\$1.50

CodeTUFIE

Minimum Spacings: for

Mounting on Conduit No. 1 or No. 12—4 $\frac{1}{2}$ inches on centers.

Mounting on Knockout Strip No. KO-1—6 inches on centers.

Dimensions:

Height Permaflector No. 25—4 $\frac{1}{4}$ inches. Width—4 $\frac{1}{4}$ inches.

Front to Back—4 $\frac{7}{8}$ inches. Center to Back—2 $\frac{1}{8}$ inches.

Lamp Size—25 Watt A-19; 60 Watt A-19.

Additional Equipment—For Use with No. 25.

Holder:

For Grooved Porcelain Socket—Use

2 $\frac{1}{4}$ " Form "SR" Holder for 25 Watt A-19 Lamp.

For Porcelain Sockets No. 1 or No. KO-8—Use

2 $\frac{1}{4}$ " Form "S" Holder for 25 Watt A-19 Lamp.

2 $\frac{1}{4}$ " Form "SL" Holder for 60 Watt A-19 Lamp.

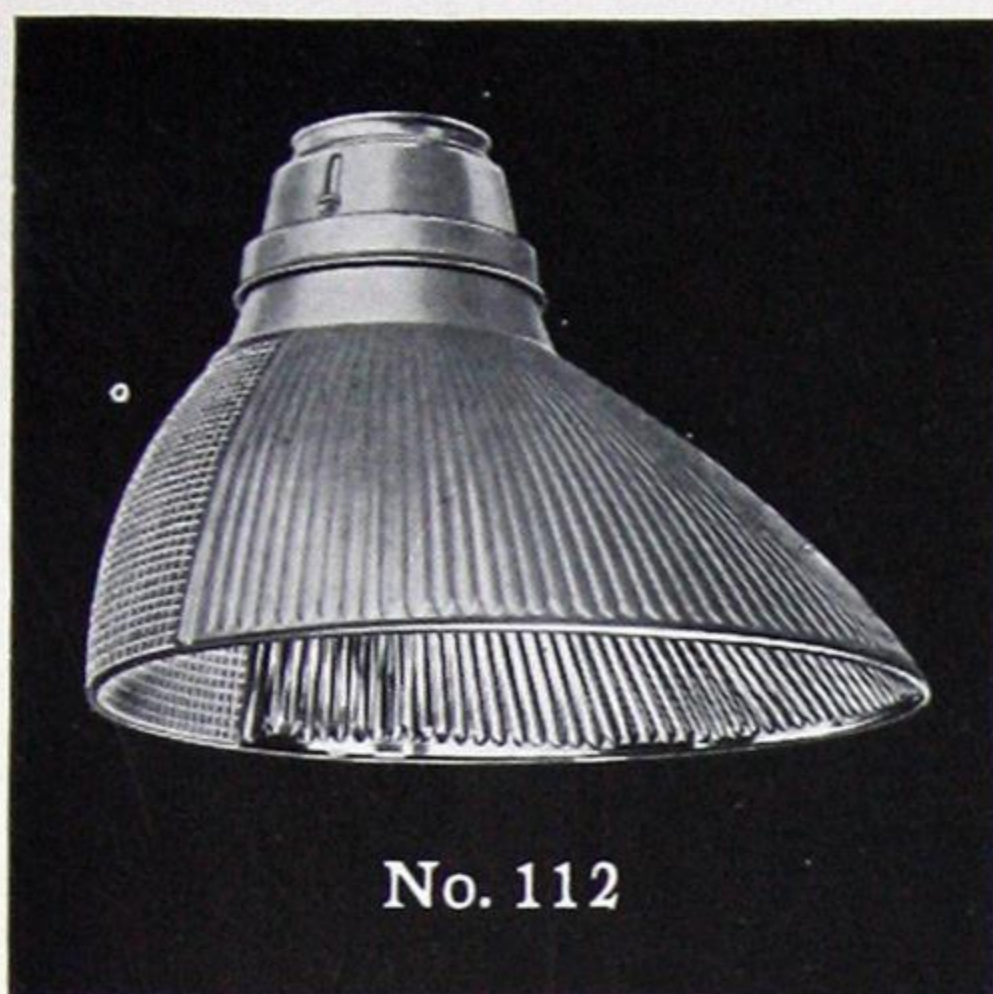
May Be Installed With: Outlet Box Cover Assembly No. B-1-3 $\frac{1}{4}$ or B-1-4 with 2 $\frac{1}{4}$ " Form "S" or "SL" Holder.

May Be Mounted On:

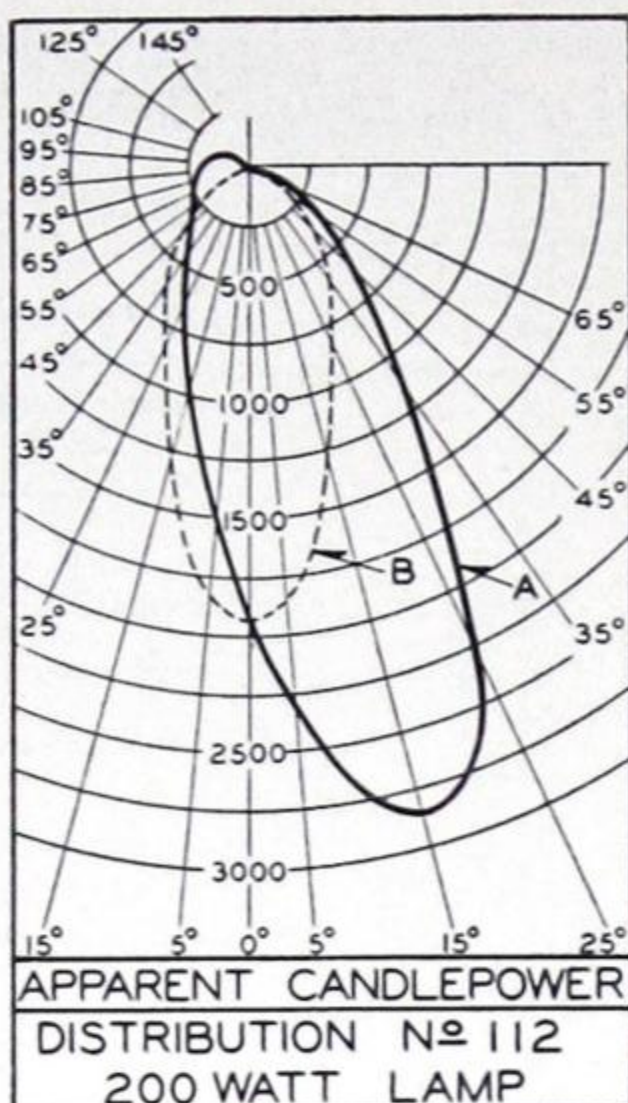
Conduit No. 1 or Knockout Strip No. KO-1 with 2 $\frac{1}{4}$ " Form "S" or "SL" Holder.

Conduit No. 12 with 2 $\frac{1}{4}$ " Form "SR" Holder.

PERMAFLECTOR NO. 112 AND 112-R



No. 112



Application—For the dual service of lighting sign at top of window as well as the display. Bottom opening horizontal. If it be desired to recess No. 112 use same auxiliary equipment as for Permaflector No. 54.

Minimum Spacings: for
Mounting on Conduit No. 1 or No. 12—10½ inches on centers.
Mounting on Knockout Strip No. KO-1—12 inches on centers.

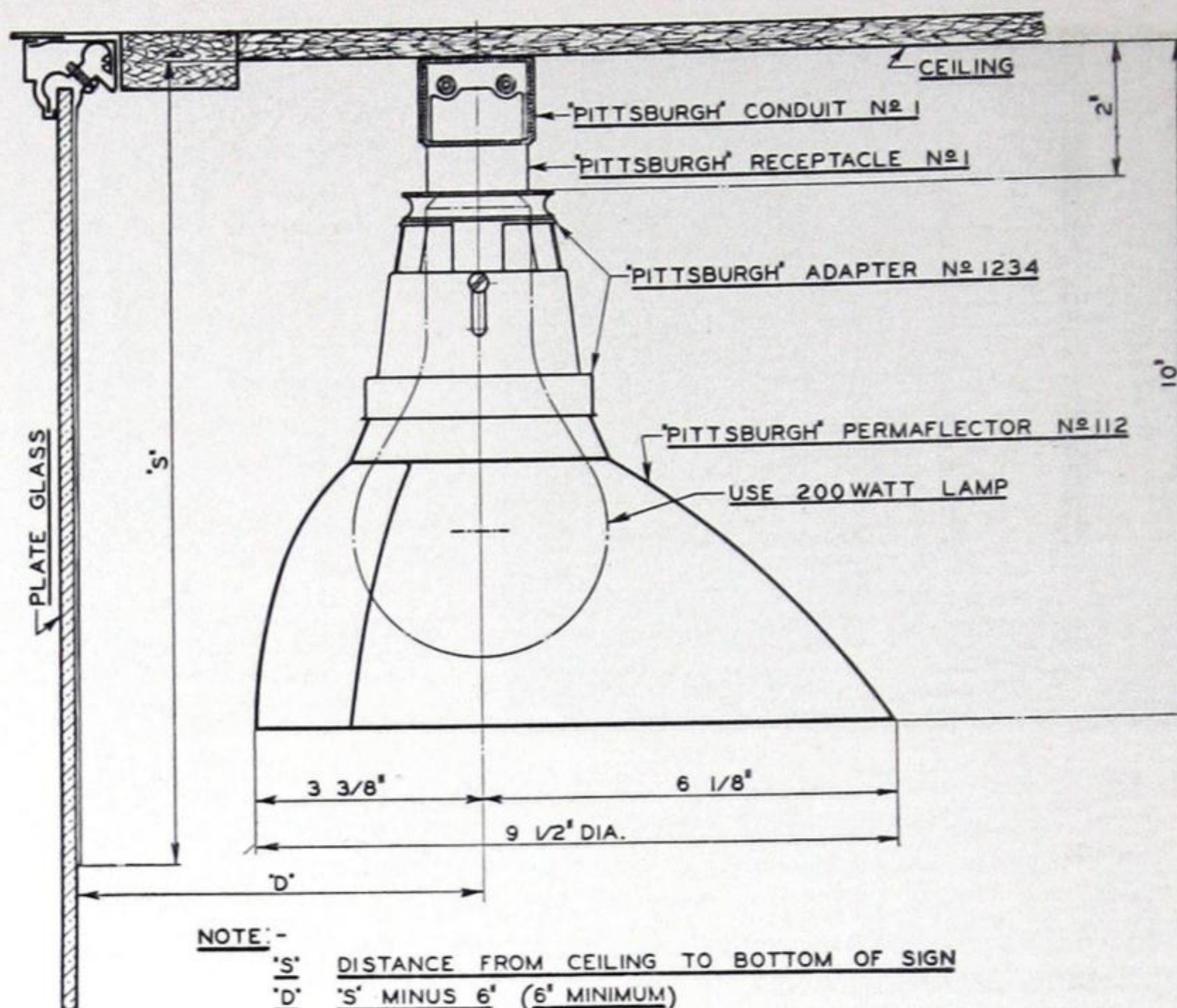
Dimensions:
Height with Adapter No. 1234 Extended—8 inches.
Height with Adapter No. 1234 Compressed—7½ inches.
Height Permaflector No. 112-GO—5¼ inches.
Bottom Opening Circular—Diameter, 9½ inches.

Lamp Size—
150 watt A-25, Adapter in compressed position.
200 watt PS-30, Adapter in extended position.
If desired for use with 100 watt A-23 lamp, substitute Adapter No. 1256 or 1256-R.

PERMAFLECTOR NO. 112

Consists of:
Permaflector No. 112-GO and Adapter No. 1234.
Standard Quantity—8 **Weight, Approx.** 18 lbs.
Retail Price, Each\$4.50
CodeHUNTWELFOR

Additional Equipment—for use with No. 112.
May Be Installed With:
Outlet Box Cover Assembly No. B-1-3¼ or No. B-1-4.
May Be Mounted On:
Conduit No. 1 or Knockout Strip No. KO-1.
For Colored Lighting:—Use
Color-Lite No. 2 or No. 2-DB for external mounting.
For Louvered Lighting: Use
Parallel Louver No. EM-54 for external mounting.
Eccentric Louver No. EM-99-CA for external mounting.



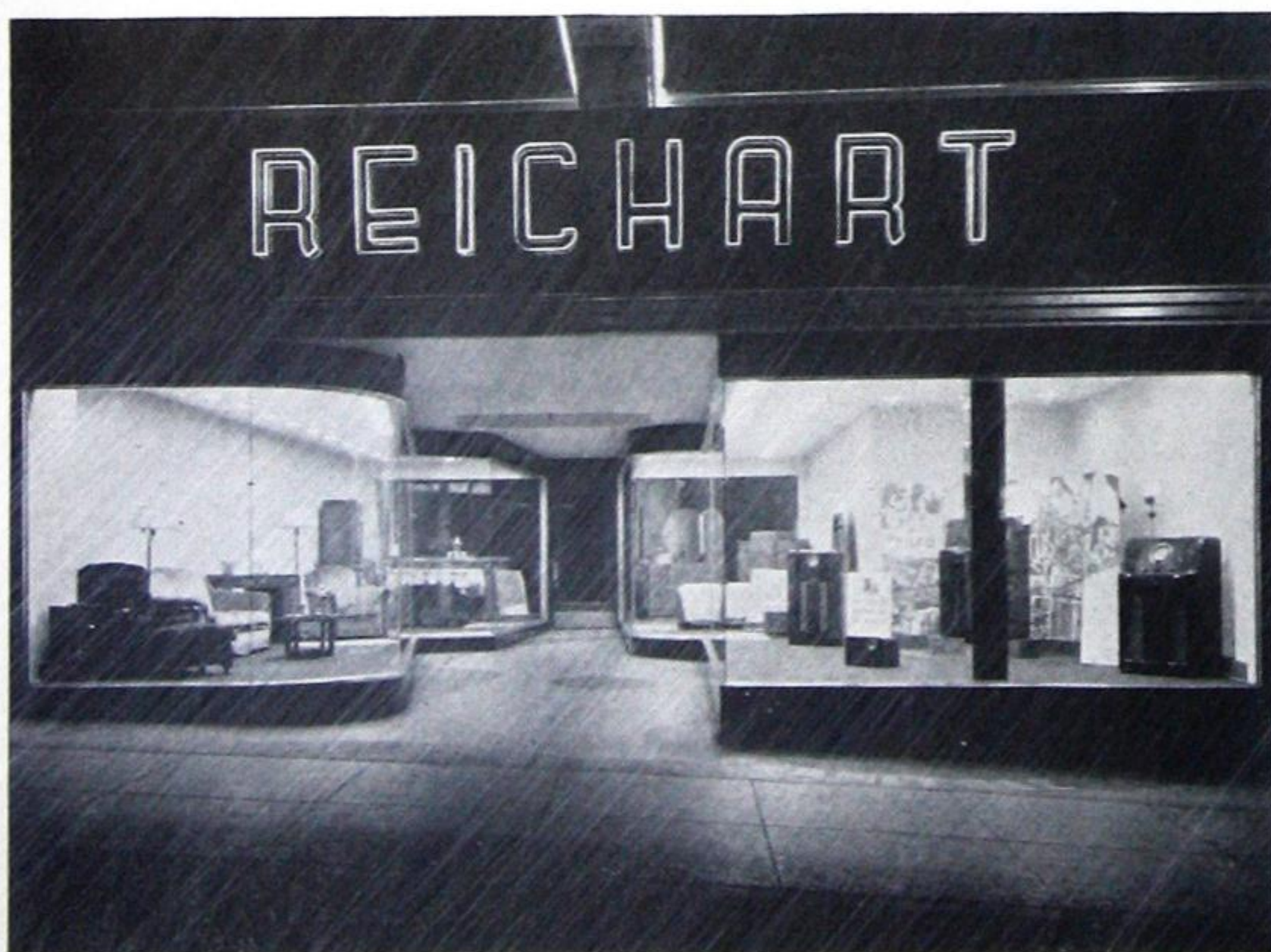
Permaflector No. 112 General Arrangement

PERMAFLECTOR NO. 112-R

Consists of:
Permaflector No. 112-GO and Adapter No. 1234-R for use where grooved porcelain sockets are installed.
Standard Quantity—8 **Weight, Approx.** 18 lbs.
Retail Price, Each\$4.50
CodeHUNTWELFIR
Additional Equipment—for use with No. 112-R.
May Be Mounted On: Conduit No. 12.
For Colored Lighting—Same as for No. 112.
For Louvered Lighting—Same as for No. 112.

SPACING RECOMMENDED FOR DUAL SERVICE

With maximum depth of sign, in.	Mounting distance of receptacles from plate glass, inches	Maximum spacing between reflectors, in.
12	6	12
13	7	14
14	8	16
15	9	18
16	10	20
17	11	22
18	12	24



Permaflectors No. 500 Series Installed
Architect—Marks & Simboli, Pittsburgh, Pa.
Reichart Furniture Store, Washington, Pa.
Electrical Contractor—Crawford Electric Co., Washington, Pa.

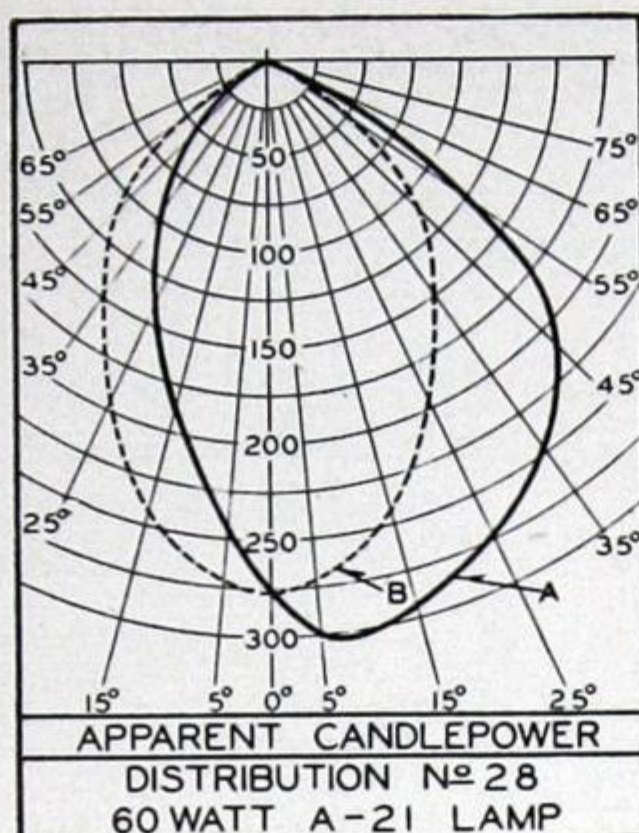
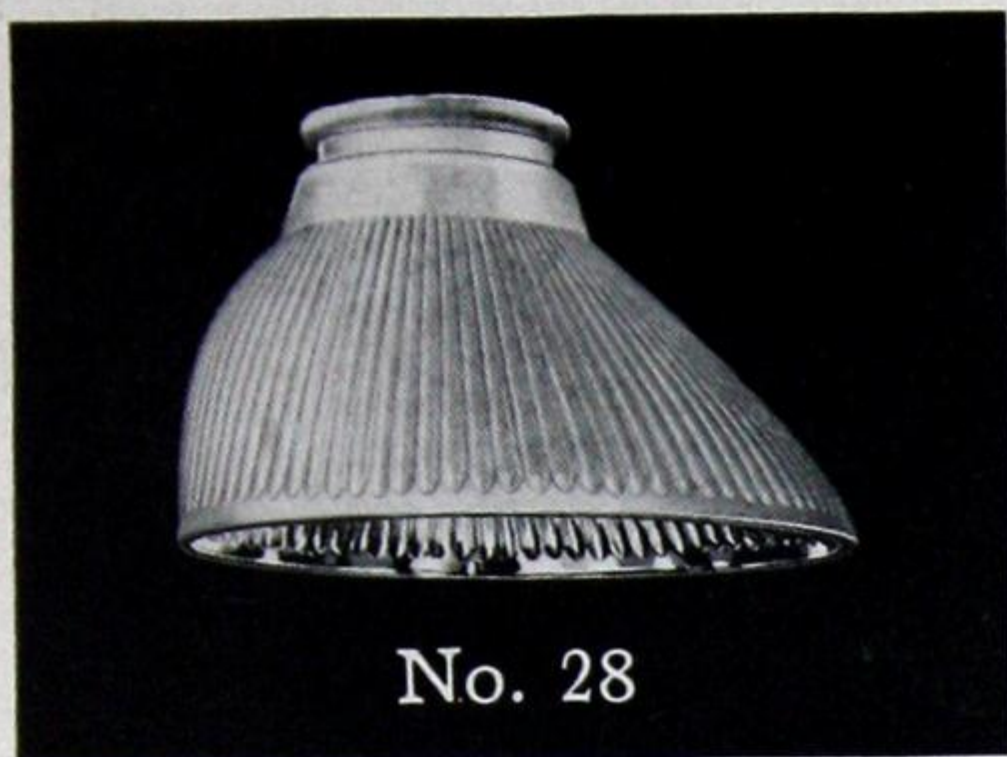


Permaflector No. 500 Series Installed
Architect—Starett & Van Vleck, New York City
J. N. Adam Company, Niagara Falls, N. Y.
Electrical Contractor—Volker Bros., Inc., Buffalo, N. Y.



PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA

PERMAFLECTOR NO. 28 SERIES



Application—For tall and shallow display cases. Asymmetric in distribution; maximum candle-power occurs at 10°.

Minimum Spacings: for
Mounting on Conduit No. 1 or No. 12—6 inches on centers.
Mounting on Knockout Strip No. KO-1—6 inches on centers.

Dimensions:
Height Permaflector No. 28—3 $\frac{7}{8}$ inches.
Bottom Opening Circular—Diam., 5 $\frac{1}{2}$ inches.

Lamp Size—25 Watt A-19; 60 Watt A-19.

PERMAFLECTOR NO. 28

Standard Quantity—20 **Weight**, Approx. 16 $\frac{1}{2}$ lbs.
Retail Price, Each\$1.75
CodeTUATE

Additional Equipment—for use with No. 28.

Holder:

For Grooved Porcelain Socket—Use
2 $\frac{1}{4}$ " Form "SR" Holder for 25 Watt A-19 Lamp.
For Porcelain Sockets No. 1 or No. KO-8—Use
2 $\frac{1}{4}$ " Form "S" Holder for 25 Watt A-19 Lamp.
2 $\frac{1}{4}$ " Form "SL" Holder for 60 Watt A-19 Lamp.

May Be Installed With: Outlet Box Cover Assembly No. B-1-3 $\frac{1}{4}$ or B-1-4 with 2 $\frac{1}{4}$ " Form "S" or "SL" Holder.

May Be Mounted On:

Conduit No. 1 or Knockout Strip No. KO-1 with 2 $\frac{1}{4}$ " Form "S" or "SL" Holder.
Conduit No. 12 with 2 $\frac{1}{4}$ " Form "SR" Holder.

COMBINATION NO. 28-2

(For Recessed Installation)
(Use 60 Watt A-19 Lamp)

Consists of:

Permaflector No. 28.
Outlet Box Cover Assembly No. B-1-3 $\frac{1}{4}$ -SL.
Flush Mounting Ring No. 28.

Standard Quantity—20 **Weight**, Approx. 30 lbs.
Retail Price, Each\$2.65
CodeTUATU

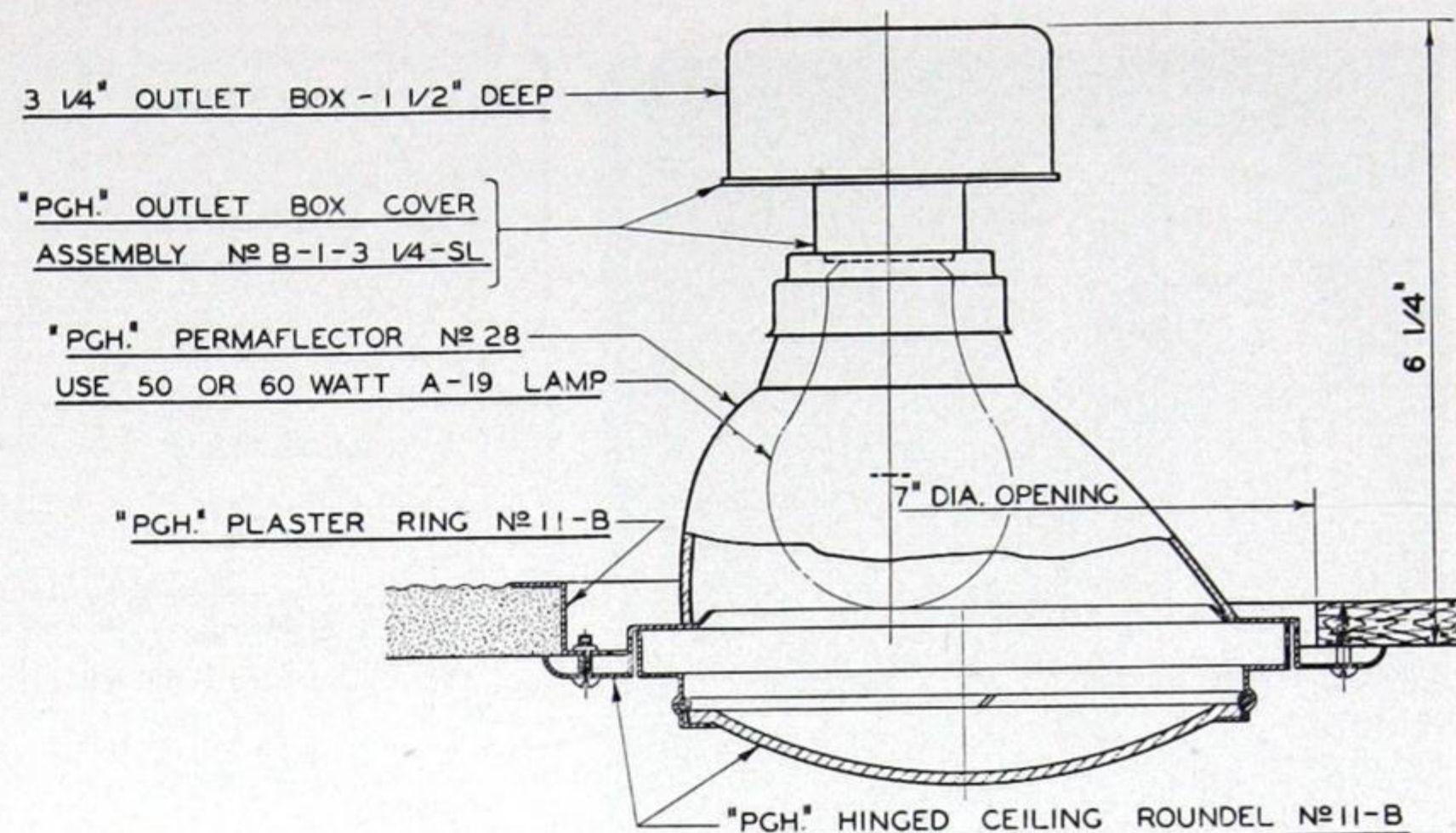
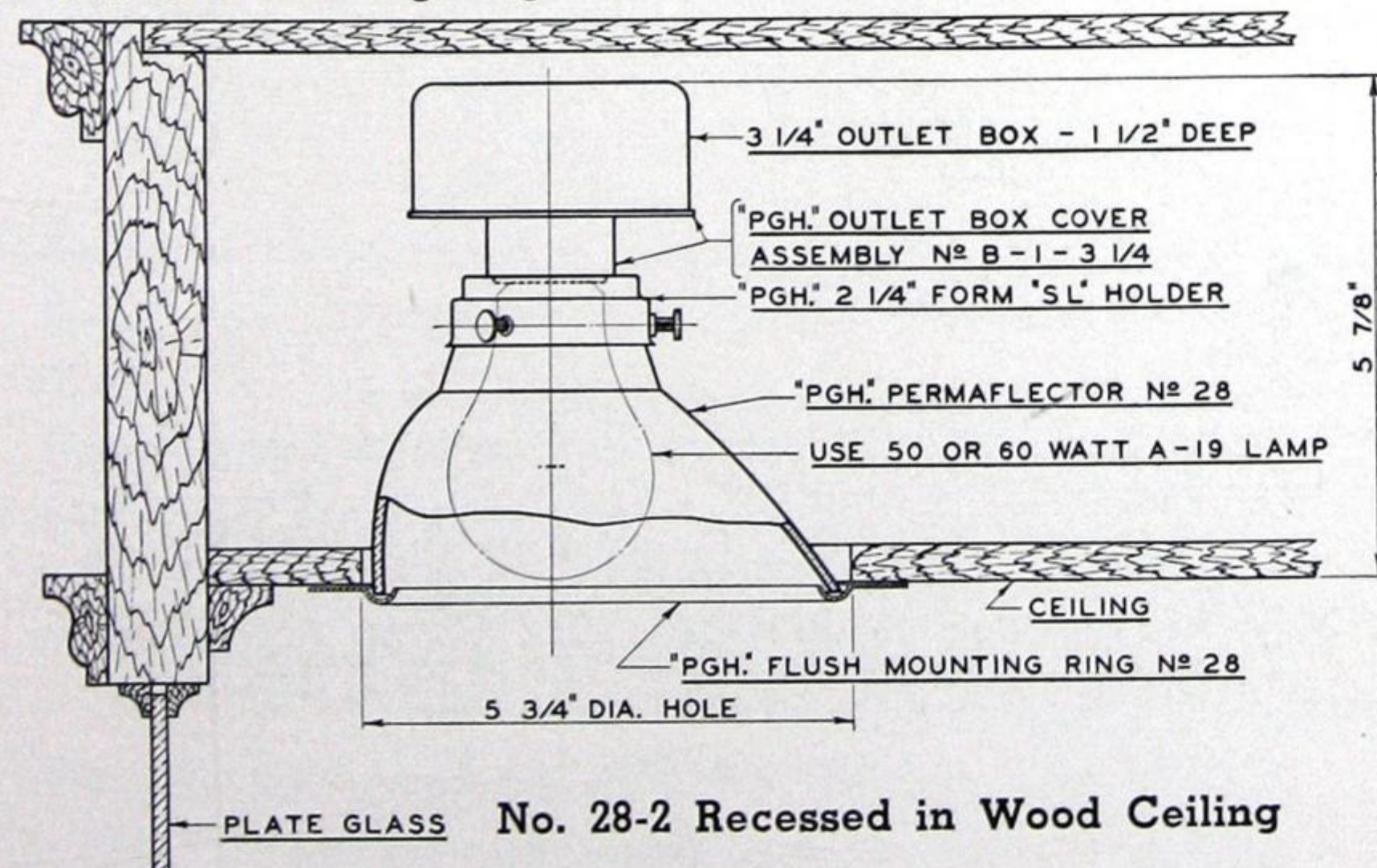
Ceiling Space Required:

Space Above Ceiling Line—5 $\frac{7}{8}$ inches.
Opening to be Cut in Ceiling, Circular—Diam., 5 $\frac{3}{4}$ inches.

Additional Equipment—for use with No. 28-2.

For Plaster Ceiling—Use Plaster Ring No. 28.

For Louvered Lighting—Use Concentric Louver No. FM-28-C.



HALF SECTION
THRU PLASTER CEILING

HALF SECTION
THRU WOOD CEILING

No. 28-4 Recessed in Ceiling

COMBINATION NO. 28-4

(Hinged Ceiling Roundel Installation)
(Use 60 Watt A-19 Lamp)

Consists of:

Permaflector No. 28.
Outlet Box Cover Assembly No. B-1-3 $\frac{1}{4}$ -SL.
Hinged Ceiling Roundel No. 11-B.

Standard Quantity—20 **Weight**, Approx. 50 lbs.
Retail Price, Each\$5.10
CodeTUATFO

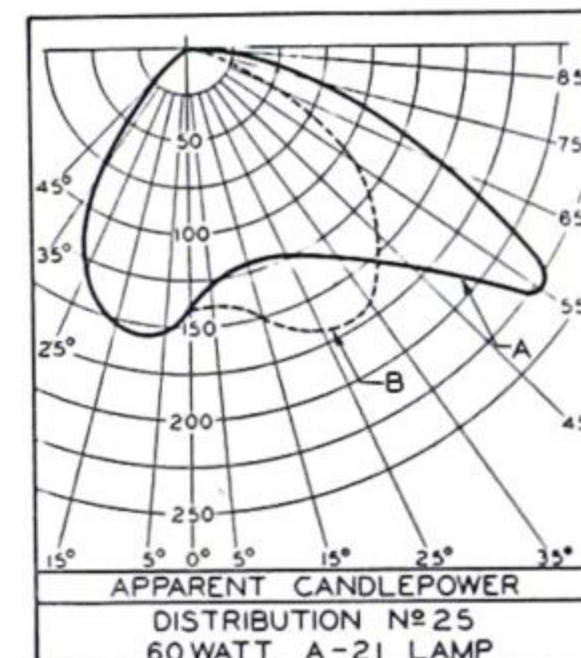
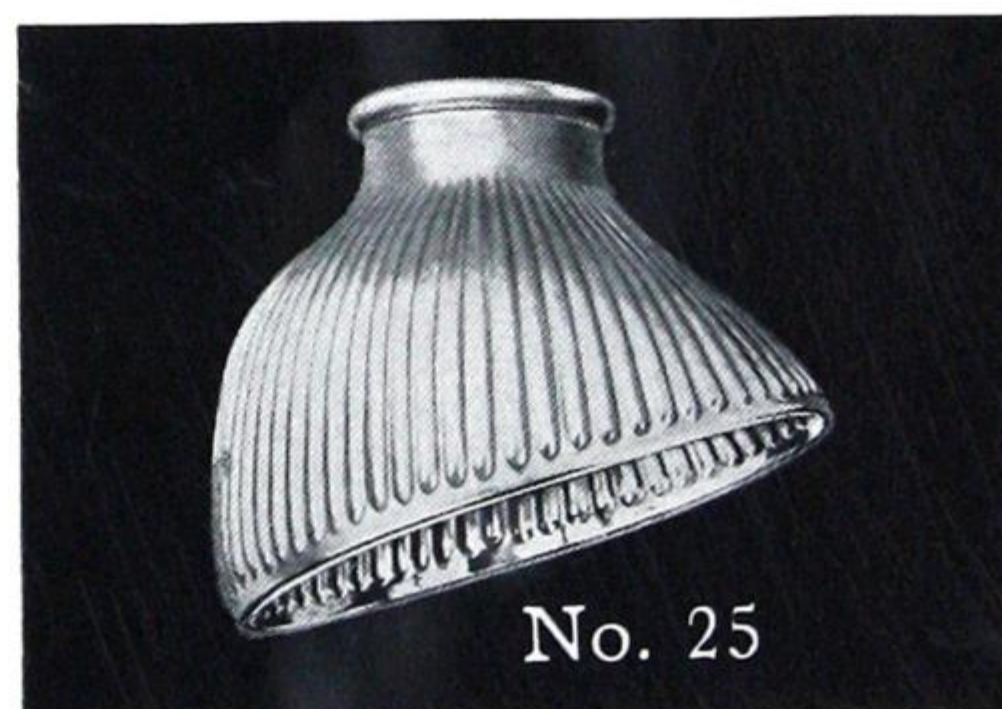
Ceiling Space Required:

Space Above Ceiling Line—6 $\frac{1}{4}$ inches.
Opening to be Cut in Ceiling, Circular—Diam., 7 inches.

Additional Equipment—for use with No. 28-4.

For Plaster Ceiling—Use Plaster Ring No. 11-B.

PERMAFLECTOR NO. 25



Standard Quantity—20 **Weight**, Approx. 12 lbs.
Retail Price, Each\$1.50
CodeTUFIE

Minimum Spacings:

Mounting on Conduit No. 1 or No. 12—4 $\frac{1}{2}$ inches on centers.
Mounting on Knockout Strip No. KO-1—6 inches on centers.

Dimensions:

Height Permaflector No. 25—4 $\frac{1}{4}$ inches. Width—4 $\frac{1}{4}$ inches.
Front to Back—4 $\frac{7}{8}$ inches. Center to Back—2 $\frac{1}{8}$ inches.

Lamp Size—25 Watt A-19; 60 Watt A-19.

Additional Equipment—For Use with No. 25.

Holder:

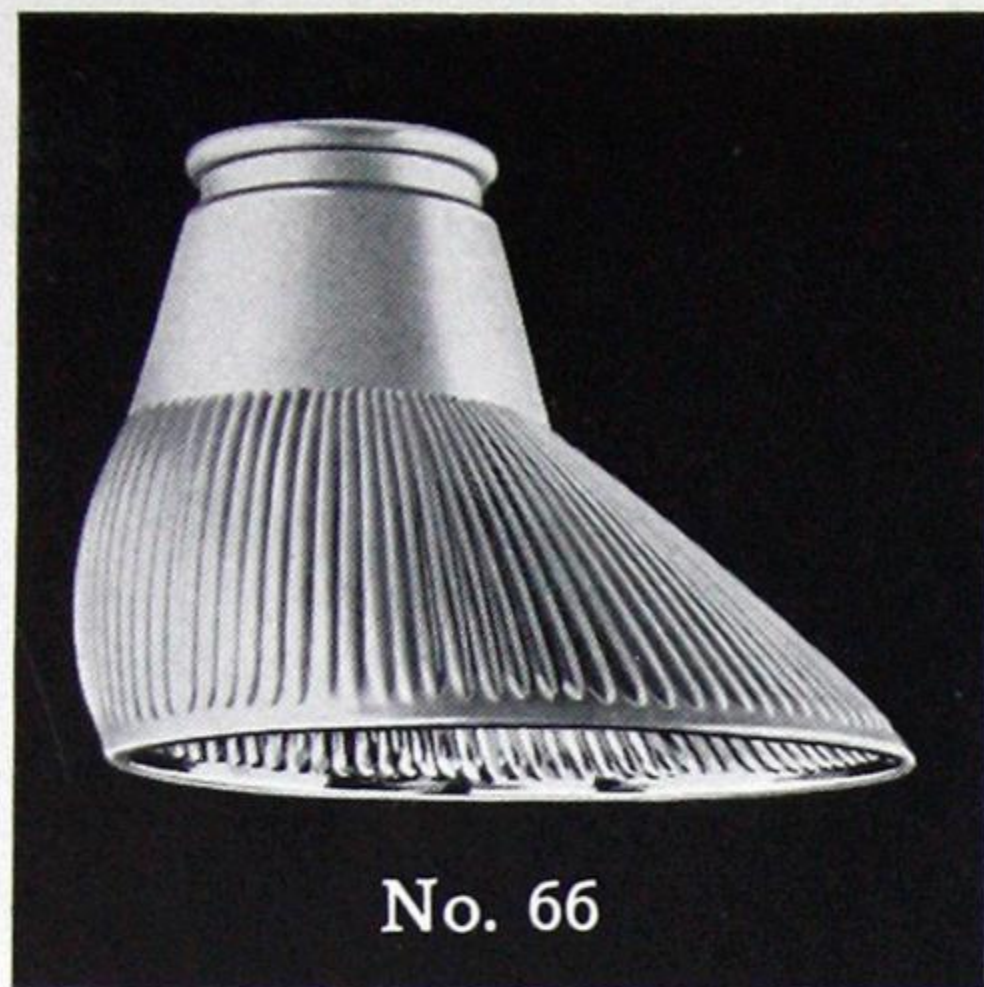
For Grooved Porcelain Socket—Use
2 $\frac{1}{4}$ " Form "SR" Holder for 25 Watt A-19 Lamp.
For Porcelain Sockets No. 1 or No. KO-8—Use
2 $\frac{1}{4}$ " Form "S" Holder for 25 Watt A-19 Lamp.
2 $\frac{1}{4}$ " Form "SL" Holder for 60 Watt A-19 Lamp.

May Be Installed With: Outlet Box Cover Assembly No. B-1-3 $\frac{1}{4}$ or B-1-4 with 2 $\frac{1}{4}$ " Form "S" or "SL" Holder.

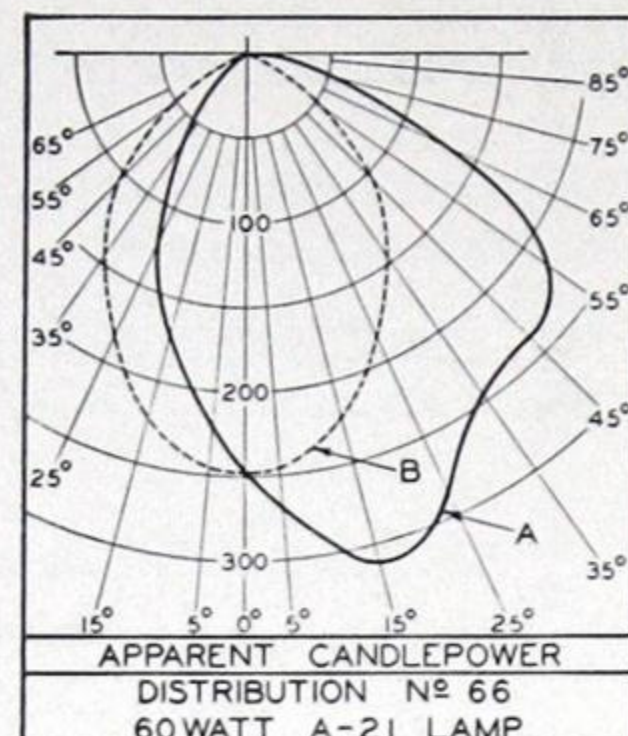
May Be Mounted On:

Conduit No. 1 or Knockout Strip No. KO-1 with 2 $\frac{1}{4}$ " Form "S" or "SL" Holder.
Conduit No. 12 with 2 $\frac{1}{4}$ " Form "SR" Holder.

PERMAFLECTOR NO. 66 SERIES



No. 66



Application—For indirect wall urn and cove lighting. Also a case lighting reflector which may be recessed in a flat ceiling and light up the full height of background. Especially good for lighting walls of a gasoline service station from reflectors recessed in overhanging cornice.

Minimum Spacings: for

Mounting on Conduit No. 1 or No. 12—6 inches on centers.
Mounting on Knockout Strip No. KO-1—6 inches on centers.

Dimensions:

Height Permalector No. 66—4¼ inches.
Bottom Opening Circular—Diam., 5½ inches.

Lamp Size—60 Watt A-19.

PERMAFLECTOR NO. 66

Standard Quantity—16 **Weight**, Approx. 13½ lbs.
Retail Price, Each\$1.85
CodeSIXTEESIX

Additional Equipment—for use with No. 66.

Holder:

For Grooved Porcelain Socket—Use
2¼" Form "SR" Holder.
For Porcelain Sockets No. 1 or No. KO-8—Use
2¼" Form "S" Holder.

May Be Installed With: Outlet Box Cover Assembly No. B-1-3¼-S or B-1-4-S.

May Be Mounted On:

Conduit No. 1 or Knockout Strip No. KO-1 with 2¼" Form "S" Holder.
Conduit No. 12 with 2¼" Form "SR" Holder.

COMBINATION NO. 66-2

(For Recessed Installation)

Consists of:

Permalector No. 66.
Outlet Box Cover Assembly No. B-1-3¼-S.
Flush Mounting Ring No. 28.

Standard Quantity—16 **Weight**, Approx. 22 lbs.
Retail Price, Each\$2.75
CodeSIXSITU

Ceiling Space Required:

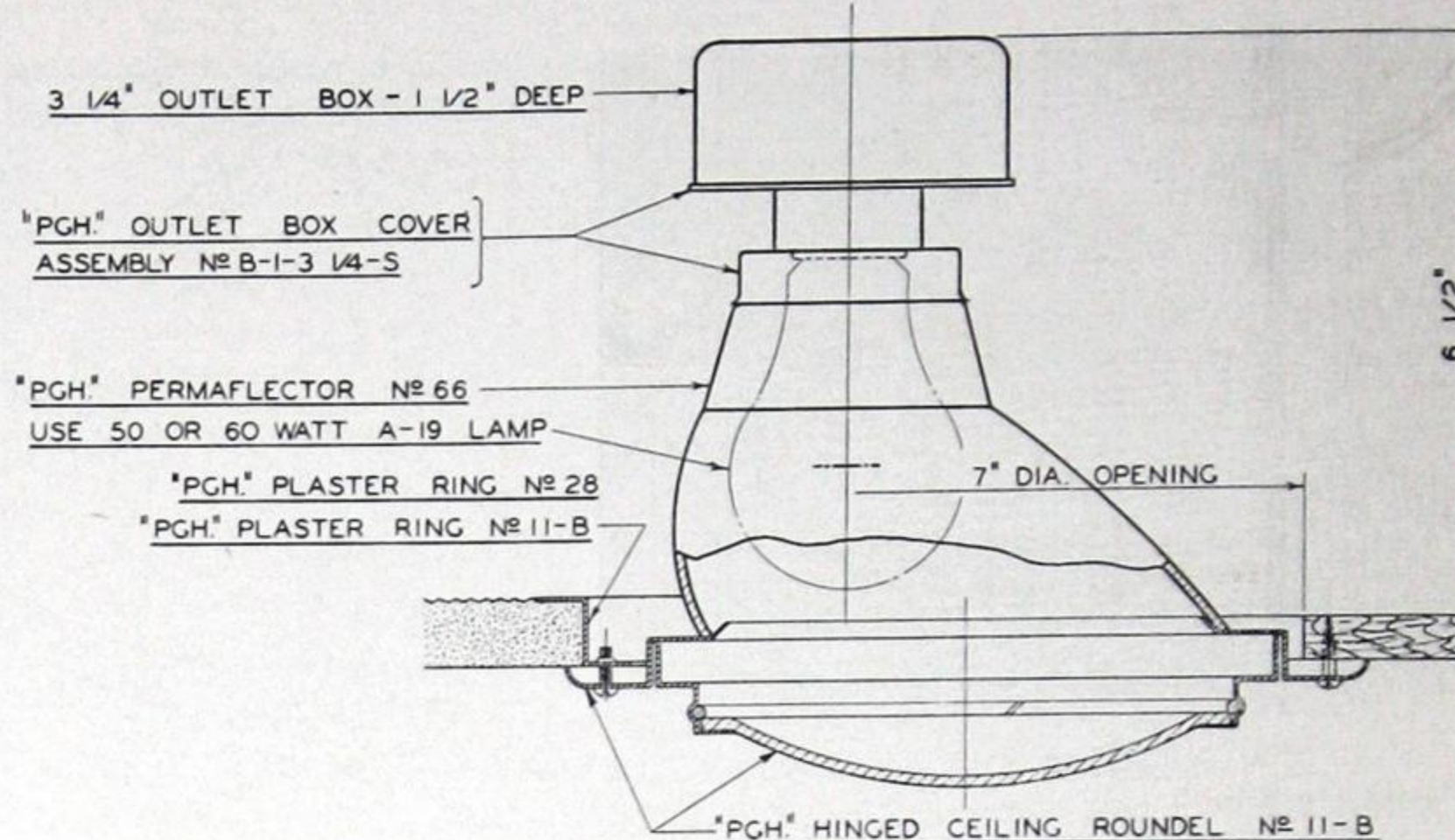
Space Above Ceiling Line—6½ inches.
Opening to be Cut in Ceiling, Circular—Diam., 6 inches.

Additional Equipment—for use with No. 66.

For Plaster Ceiling—Use Plaster Ring No. 28.
For Louvered Lighting—Use Concentric Louver No. FM-28-C.

LOUVERED WINDOW LIGHTING

In corner windows and island windows, it is desirable to use louvers to conceal lamps and reflecting surfaces of Permalectors from normal view. In corner windows parallel vane louvers are used, whereas in island windows eccentric louvers provide the desired concealment.



HALF SECTION THRU PLASTER CEILING
HALF SECTION THRU WOOD CEILING

No. 66-4 Recessed in Ceiling

COMBINATION NO. 66-4

(Hinged Ceiling Roundel Installation)
(Use 60 Watt A-19 Lamp)

Consists of:

Permalector No. 66.
Outlet Box Cover Assembly No. B-1-3¼-S.
Hinged Ceiling Roundel No. 11-B.

Standard Quantity—16 **Weight**, Approx. 41 lbs.
Retail Price, Each\$5.20
CodeSIXSIFO

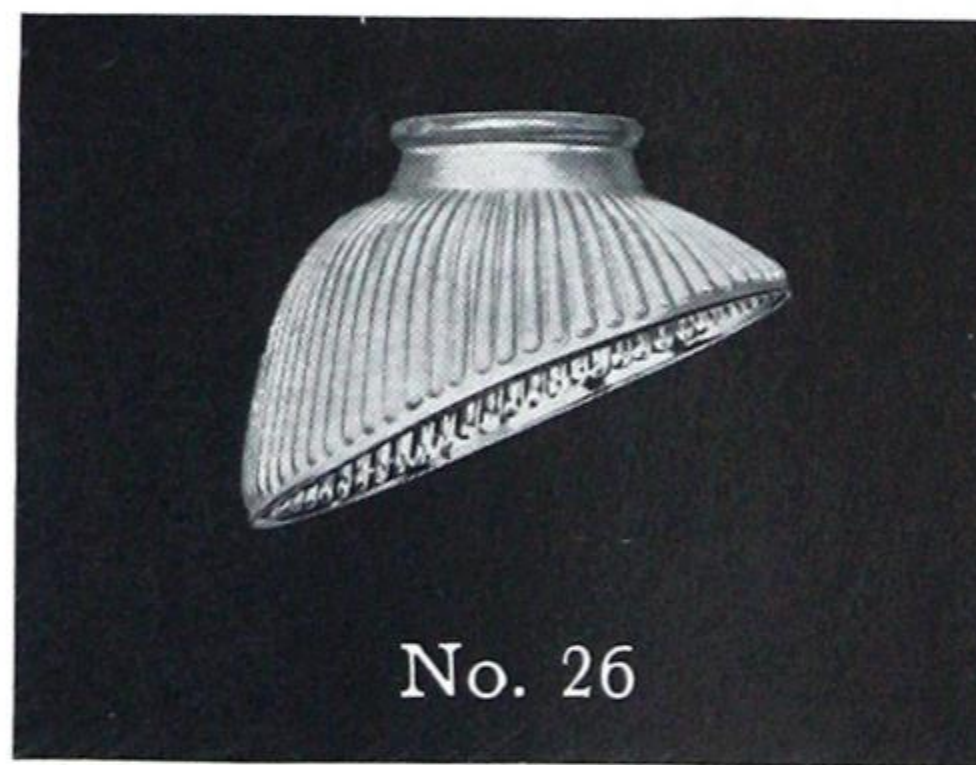
Ceiling Space Required:

Space Above Ceiling Line—6½ inches.
Opening to be Cut in Ceiling, Circular—Diam., 7 inches.

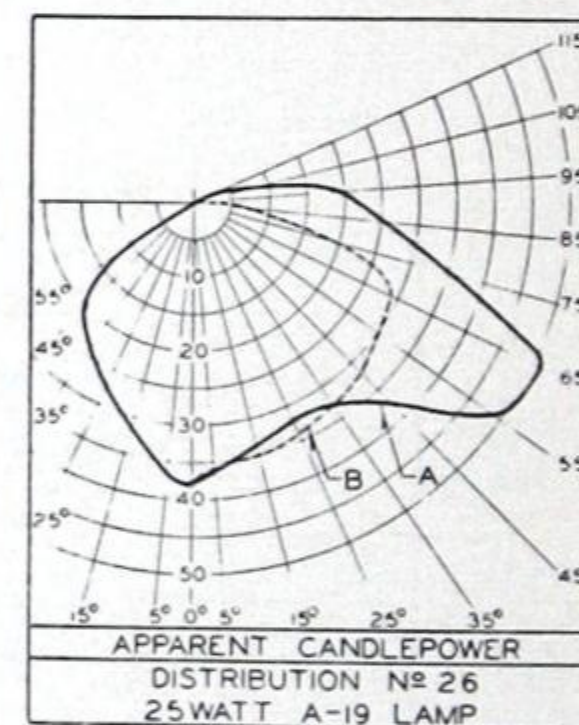
Additional Equipment—for use with No. 66-4.

For Plaster Ceiling—Use Plaster Ring No. 11-B.

PERMAFLECTOR NO. 26



No. 26



Application—A show case reflector. Also for small coves.

Standard Quantity—24 **Weight**, Approx. 13 lbs.
Retail Price, Each\$1.50
CodeTOOSIX

Minimum Spacings: for

Mounting on Conduit No. 1 or No. 12—4½ inches on centers.
Mounting on Knockout Strip No. KO-1—6 inches on centers.

Dimensions:

Height Permalector No. 26—3½ inches.
Front to Back—4½ inches.
Width—4½ inches.
Center to Back—2½ inches.

Lamp Size—25 Watt A-19; 60 Watt A-19.

Additional Equipment—for use with No. 26.

Holder:

For Grooved Porcelain Socket—Use
2¼" Form "SR" Holder for 25 Watt A-19 Lamp.
For Porcelain Sockets No. 1 or No. KO-8—Use
2¼" Form "S" Holder for 25 Watt A-19 Lamp.
2¼" Form "SL" Holder for 60 Watt A-19 Lamp.

May Be Installed With: Outlet Box Cover Assembly No. B-1-3¼ or B-1-4 with 2¼" Form "S" or "SL" Holder.

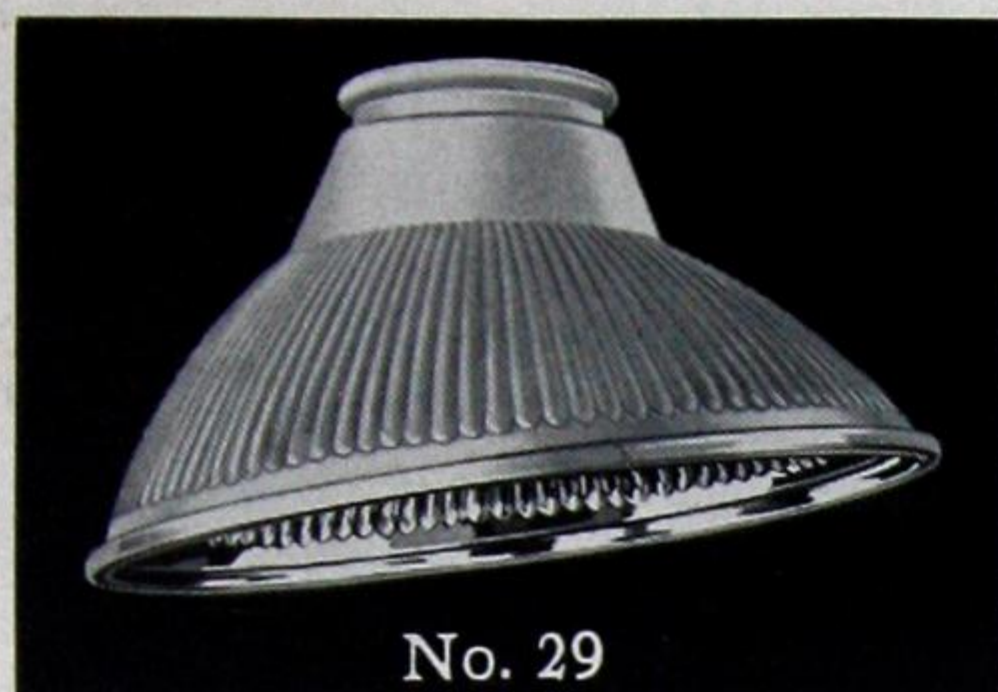
May Be Mounted On:

Conduit No. 1 or Knockout Strip No. KO-1 with 2¼" Form "S" or "SL" Holder.
Conduit No. 12 with 2¼" Form "SR" Holder.



PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA

PERMAFLECTOR NO. 29 SERIES



No. 29

Application—Primarily for tall and shallow wall display cases. Concentrating asymmetric distribution; with maximum candlepower at 15°. Also useful for small show windows, bank cages, stock shelves, bookcases, for cove lighting, etc.

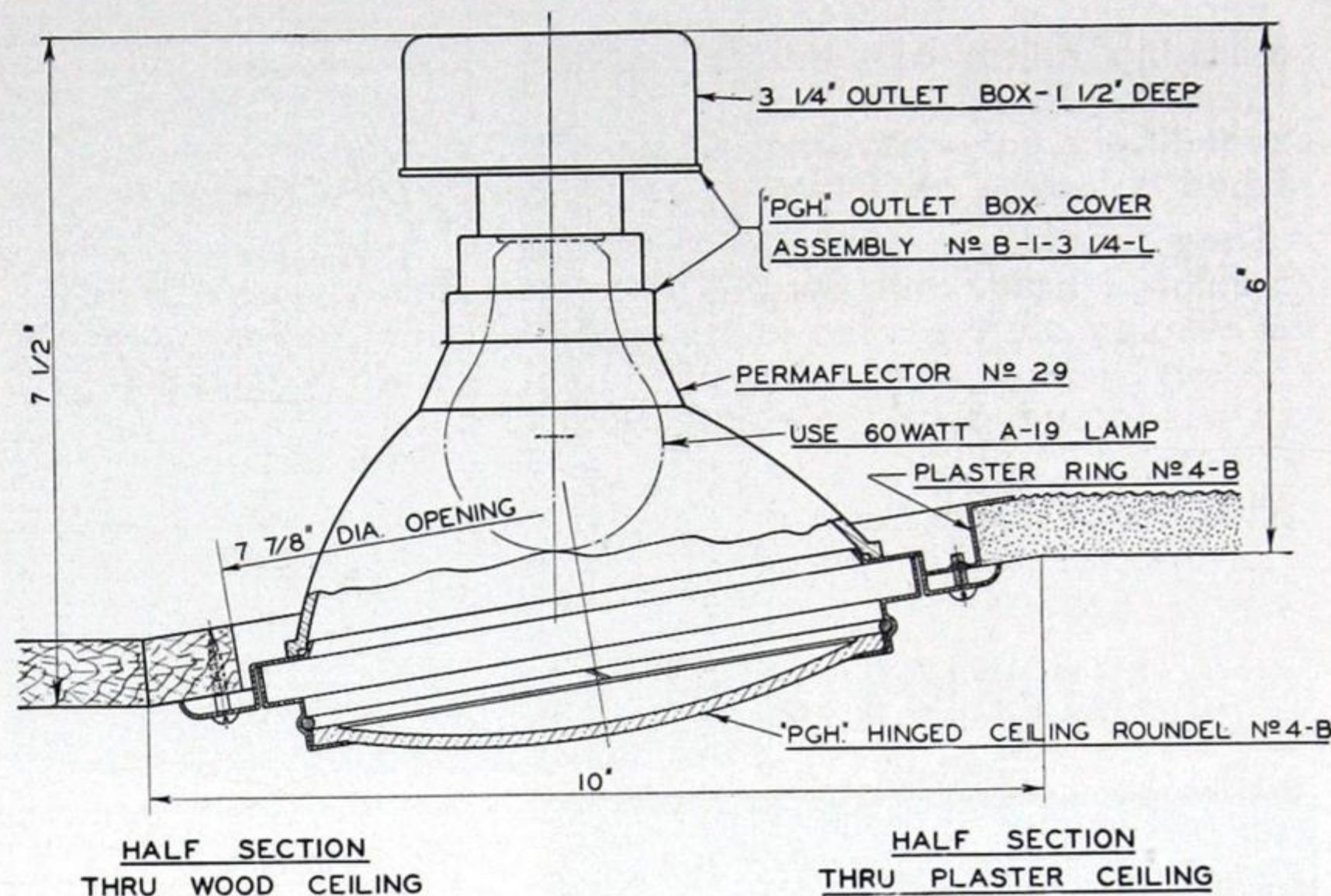
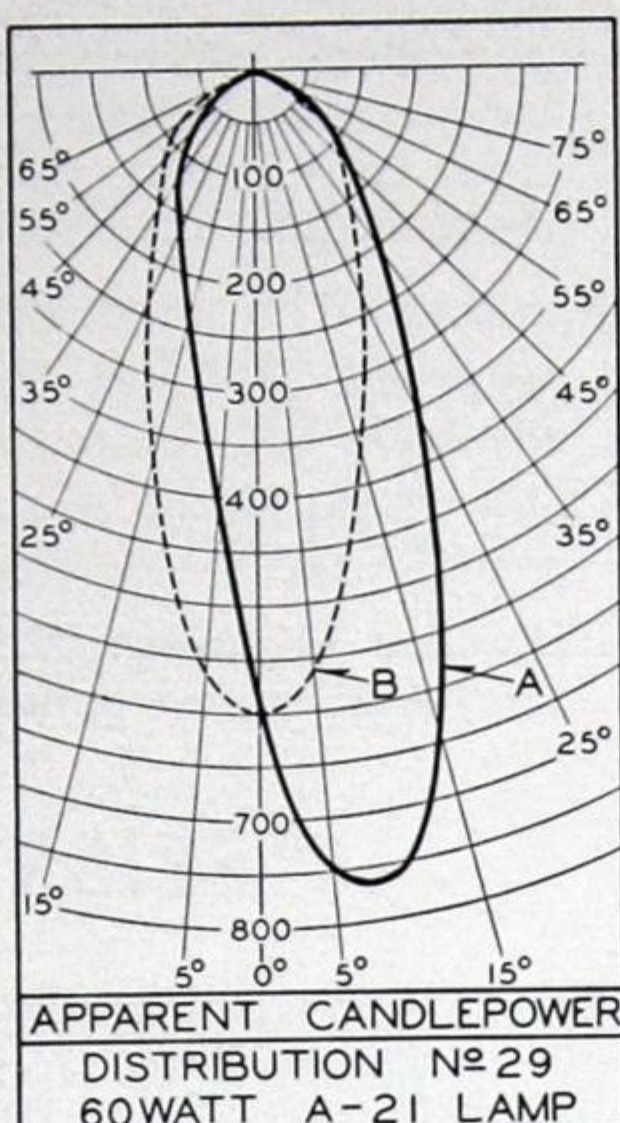
Minimum Spacings: for

Mounting on Conduit No. 1 or No. 12—7½ inches on centers.
Mounting on Knockout Strip No. KO-1—9 inches on centers.

Dimensions:

Height Permaflector No. 29—3¾ inches.
Bottom Opening Circular—Diam., 6¾ inches.

Lamp Size—25 Watt A-19; 40 Watt A-19; 60 Watt A-19.



No. 29-4 Recessed in Ceiling

COMBINATION NO. 29-4

(Hinged Ceiling Roundel Installation)
(Use 60 Watt A-19 Lamp)

Consists of:

Permaflector No. 29.
Outlet Box Cover Assembly No. B-1-3¼-L.
Hinged Ceiling Roundel No. 4-B.

Standard Quantity—10

Weight, Approx. 30 lbs.

Retail Price, Each.....

\$5.60

Code

TUNIFO

Opening to be Cut in Ceiling, Circular—Diam. 7⅞ inches.

Additional Equipment—for use with No. 29-4.

For Plaster Ceiling—Use Plaster Ring No. 4-B.

For Protection of Roundel—Use Wire Guard No. WG-4.

COMBINATION NO. 29-5

(Hinged Concentric Louver Installation)
(Use 60 Watt A-19 Lamp)

Consists of:

Permaflector No. 29.
Outlet Box Cover Assembly No. B-1-3¼-L.
Hinged Concentric Louver No. 4-B.

Standard Quantity—10

Weight, Approx. 25 lbs.

Retail Price, Each.....

\$5.60

Code

TUNIFI

Opening to be Cut in Ceiling, Circular—Diam., 7⅞ inches.

Additional Equipment—for use with No. 29-5.

For Plaster Ceiling—Use Plaster Ring No. 4-B.

COMBINATION NO. 29-2

(For Recessed Installation)
(Use 60 Watt A-19 Lamp)

Consists of:

Permaflector No. 29.
Outlet Box Cover Assembly No. B-1-3¼-L.
Flush Mounting Ring No. 73.

Standard Quantity—10

Weight, Approx. 16 lbs.

Retail Price, Each.....

\$2.98

Code

TUNITU

Opening to Be Cut in Ceiling, Circular—Diam., 7 inches.

Additional Equipment—for use with No. 29-2.

For Plaster Ceiling—Use Plaster Ring No. 77.

For Colored Lighting—Use Color-Lite No. 41 or No. 41-DB.

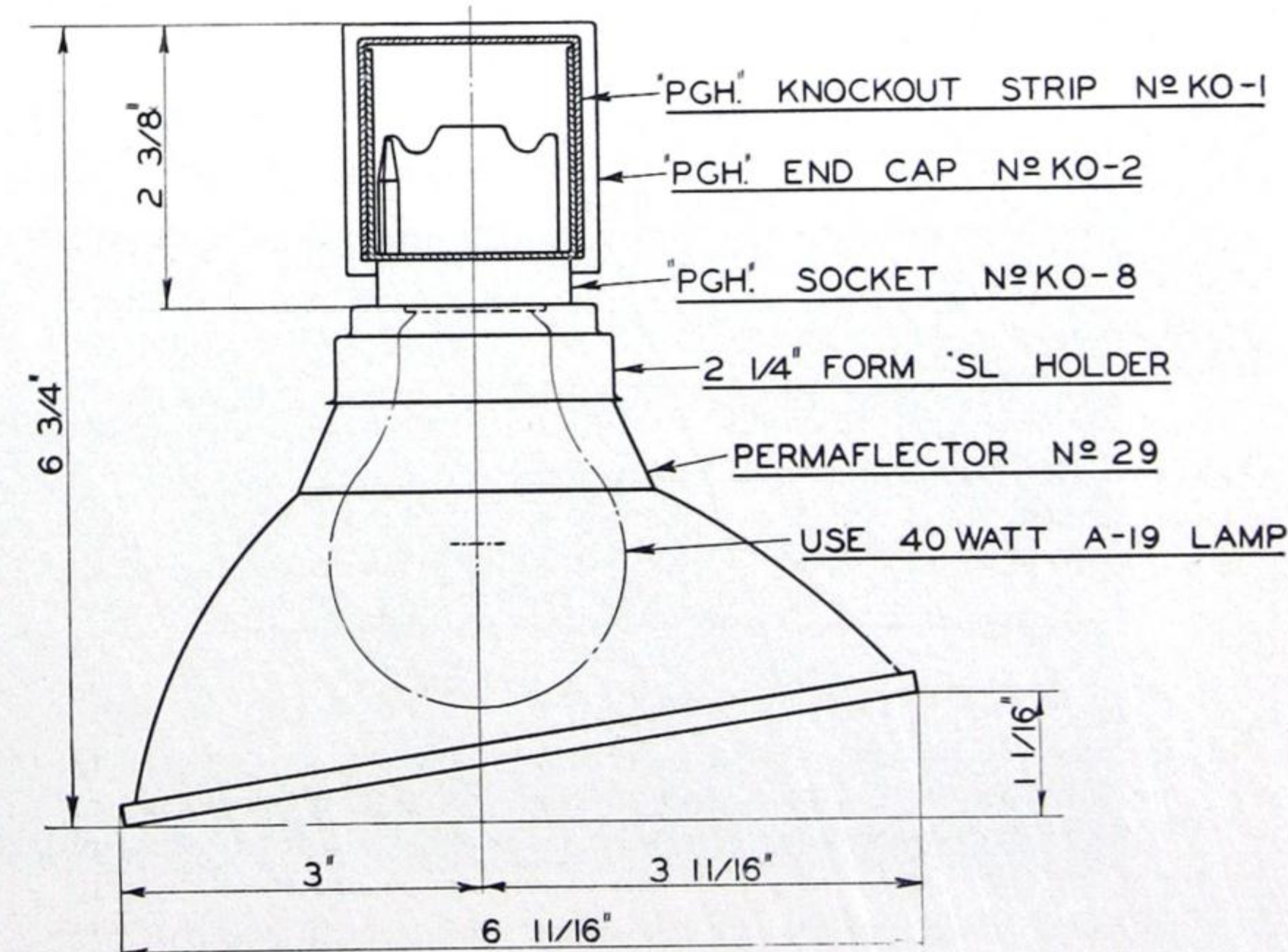
For Ceiling Roundel (Not Hinged)—Use

Ceiling Roundel No. 41 with or without Wire Guard No. WG-4.

For Louvered Lighting—Use

Parallel Louver No. FM-77.

Concentric Louver No. FM-77-C.



No. 29 External Mounting



PERMAFLECTOR INTERIOR SPOTS

Permalector Interior Spots are window lighting equipment consisting of an adjustable bracket with base for attaching to the ceiling, transom bar, etc.; spot type of Permalector with exceedingly concentrating distribution; socket and husk. Furnished complete as illustrated, with cord and attachment plug.

They provide an effective method of high-lighting with clear or colored light, any portion of the window display to which the display man desires to focus the attention of the customer. Interior Spots are auxiliary window lighting equipment and are **not intended as the sole source** of illumination in a show window.

Other Uses—Reducing daylight reflections in a show window; for special lighting on stages; in automobile show rooms, to

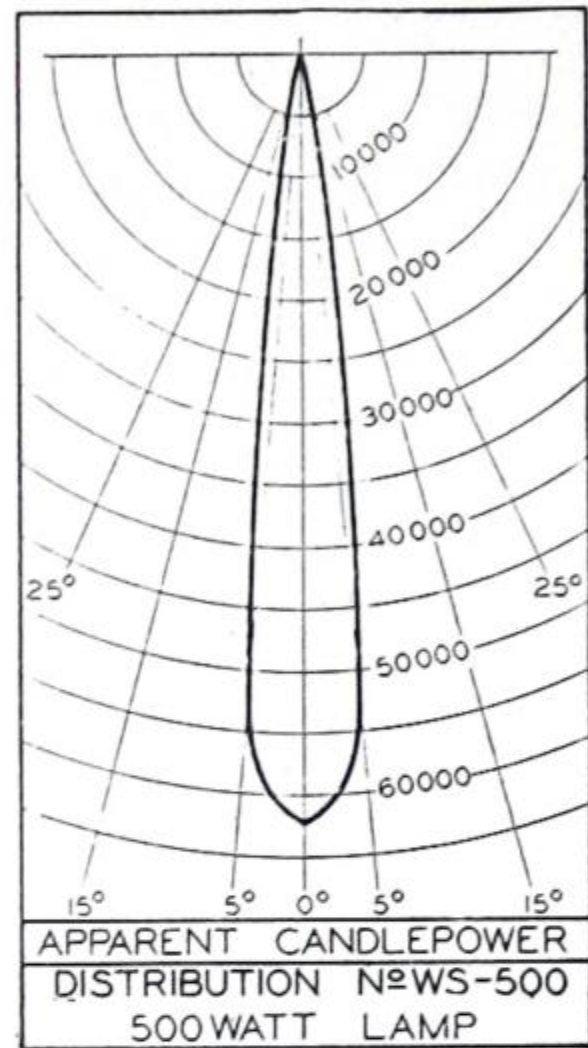
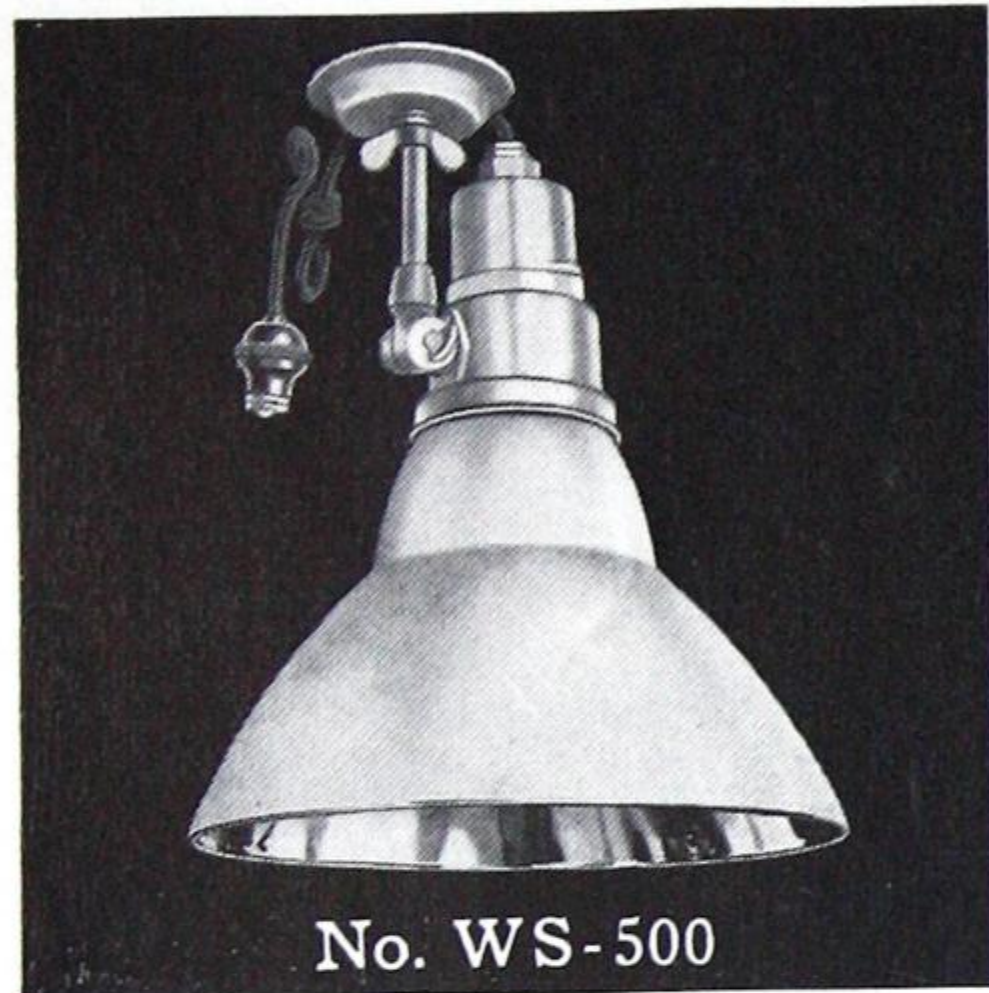
silhouette a car against a light background; dance halls for so-called "moonlight" dances; lighting of walls of art galleries and churches; skylights and church art glass windows; and any other purpose where exceedingly concentrated illumination is desired over a limited area.

Spacing—The number installed in a show window depends largely upon the psychological effect at which the display man is aiming.

Color Lighting—Color-Lites are available for use with each size Permalector Spot.

Louvered Lighting: When it is desired to conceal the reflector and lamp, use concentric louvers, EM series.

INTERIOR SPOT NO. WS-500



Dimensions:

Overall height including bracket—18 inches.
Bottom opening circular—Diameter, 13½ inches.

Lamp Size—

500 watt PS-40 or 300 watt PS-35.

Consists of:

Permalector No. C-500-GO.
Bracket—complete as shown, with 30 inches of cord and plug.

Standard Quantity—1

Weight, Approx. 10 lbs.

Retail Price, Each:

Interior Spot No. WS-500.....	\$12.70
Permalector No. C-500-GO (Glass only).....	\$ 7.90
Bracket only	\$ 6.00

Code:

Interior Spot No. WS-500.....	WINSPIVE
Permalector No. C-500-GO	WINSPIGLA
Bracket only	WINSPIBRA

Additional Equipment—for use with No. WS-500.

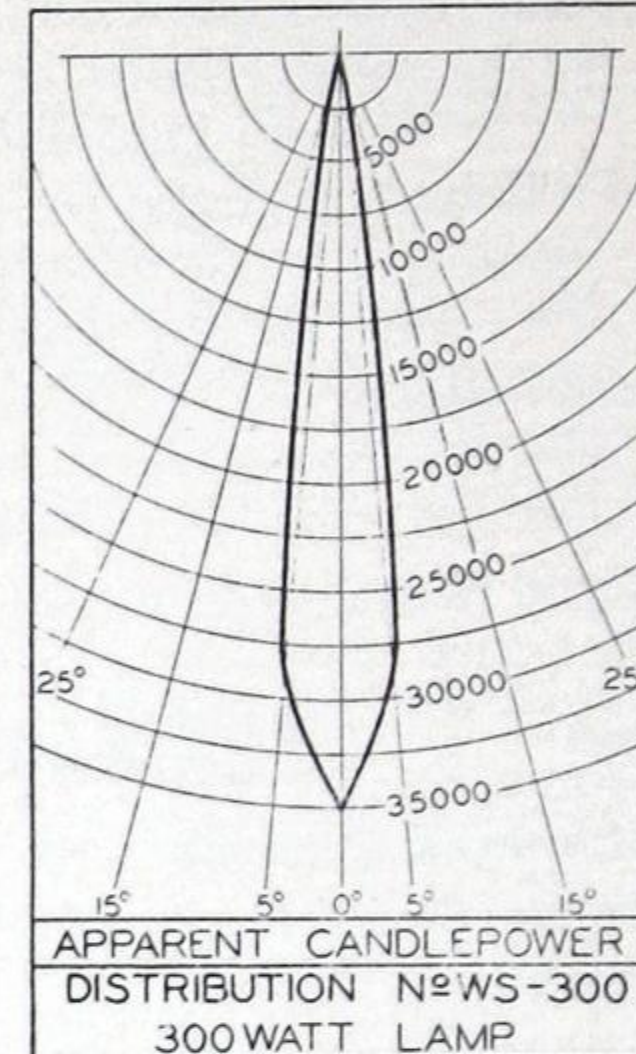
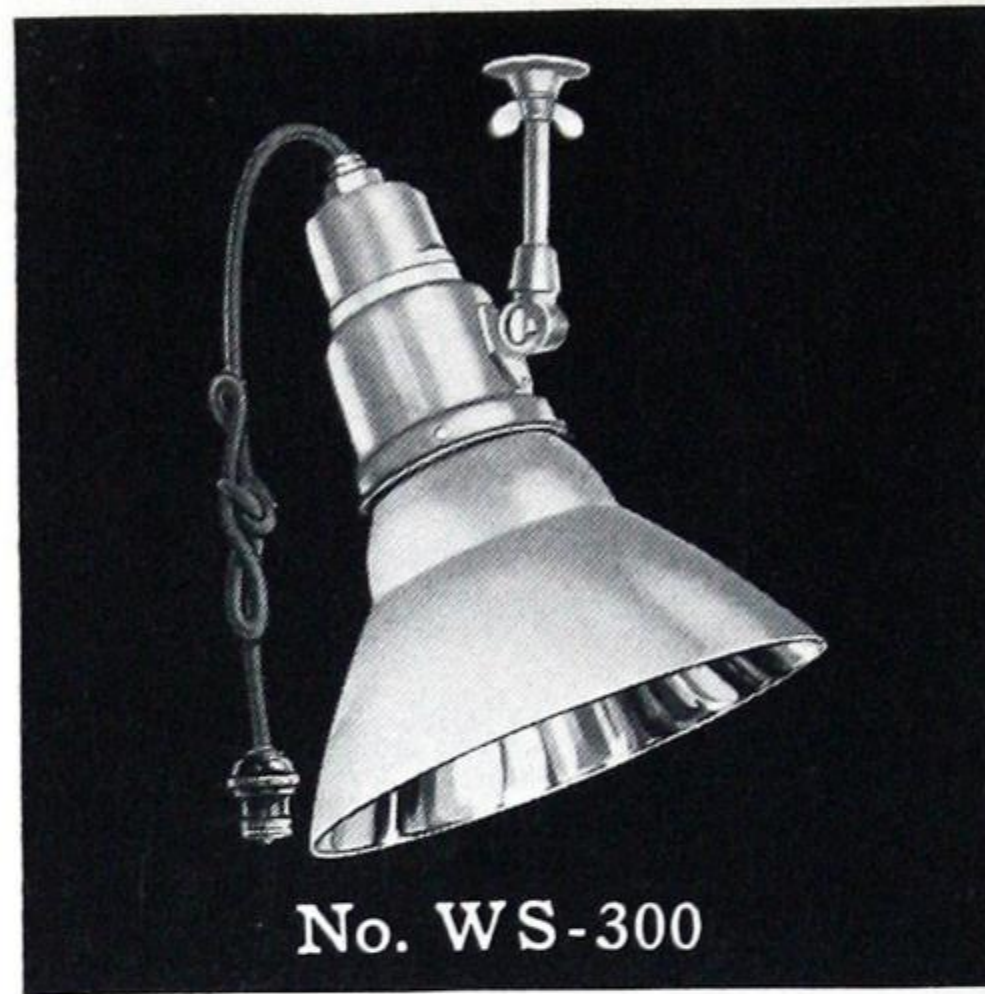
May Be Mounted on Knockout Strip—No. KO-1 with Hub No. KO-10 and Flange No. KO-12. (When ordering WS-500 for this service ask for **small base plate**.)

For Colored Lighting—use Color-Lite No. 8.

For Louvered Lighting—use Concentric Louver No. EM-555-C.

For Spill Light Elimination—use Spill Shield No. SS-500.

INTERIOR SPOT NO. WS-300



Dimensions:

Overall height including bracket—13¾ inches.
Bottom opening circular—Diameter, 11½ inches.

Lamp Size: 300 watt PS-35.

Consists of:

Permalector No. C-300-GO.
Bracket—complete as shown, with 30 inches of cord and plug.

Standard Quantity—1

Weight, Approx. 7 lbs.

Retail Price, Each:

Interior Spot No. WS-300.....	\$11.40
Permalector No. C-300-GO (Glass only).....	\$ 6.75
Bracket only	\$ 6.00

Code:

Interior Spot No. WS-300.....	WINSPRE
Permalector No. C-300-GO	SEETREEHUN
Bracket only	WINSPREBRA

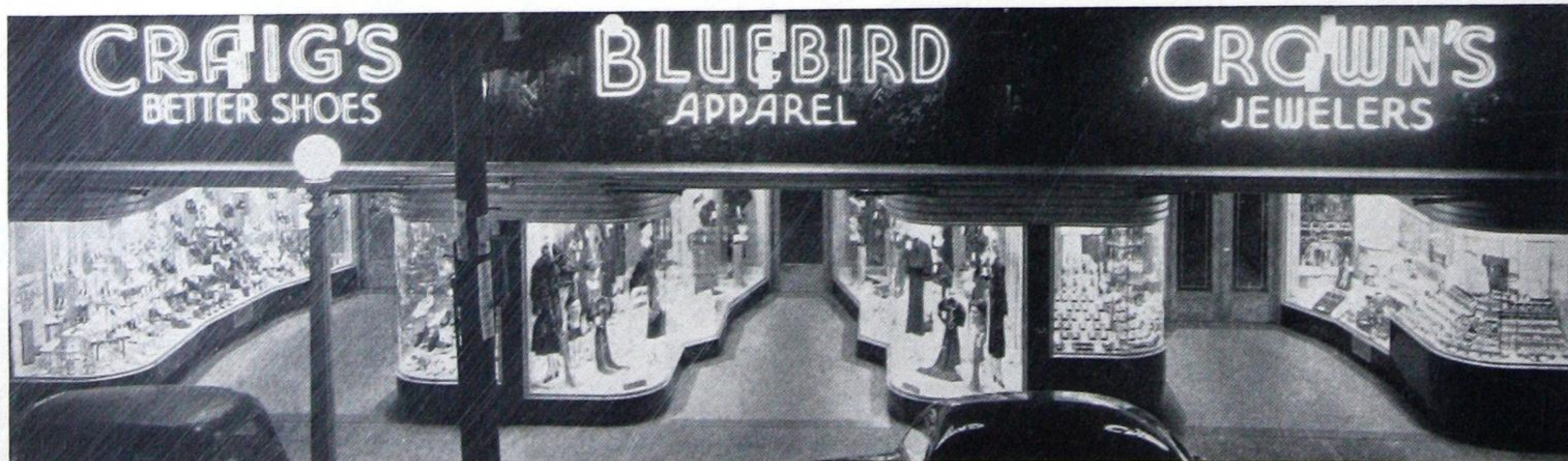
Additional Equipment—for use with No. WS-300.

May Be Mounted on Knockout Strip—No. KO-1 with Hub No. KO-10 and Flange No. KO-12.

For Colored Lighting—use Color-Lite No. 10 or No. 10-DB.

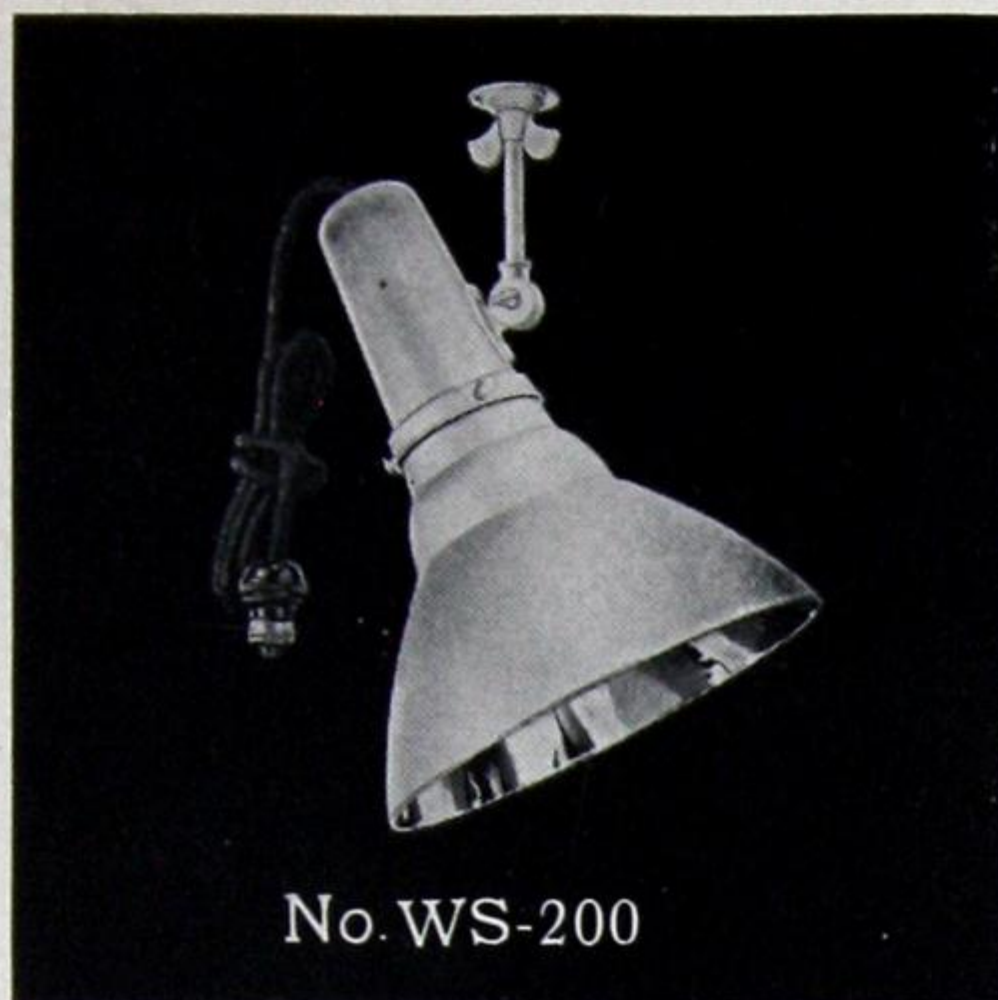
For Louvered Lighting—use Concentric Louver No. EME-500-C.

For Spill Light Elimination—use Spill Shield No. SS-300.

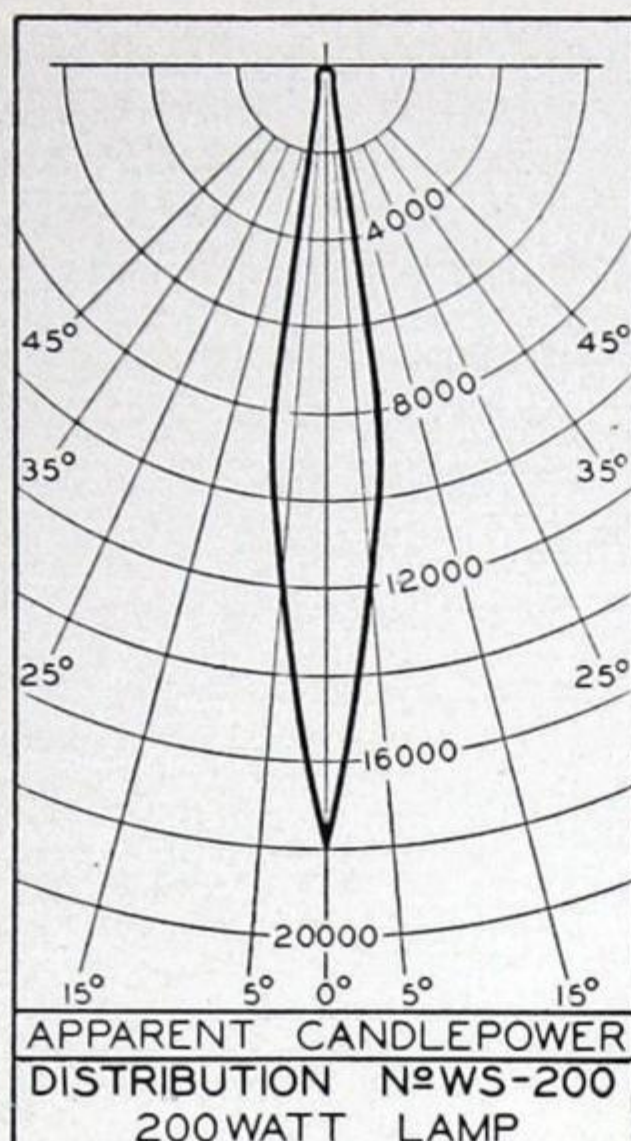


Architect—Enos Cooke, New Kensington, Pa.
Electrical Contractor—Keller Electric Co., New Kensington, Pa.
Strawn Building, New Kensington, Pa.

INTERIOR SPOT NO. WS-200



No. WS-200



Dimensions:

Overall height including bracket—13½ inches.
Bottom opening circular—Diameter, 10 inches.

Lamp Size: 200 watt PS-30.

Consists of:

Permalector No. C-201-GO.
Bracket—complete as shown, with 30 inches of cord and plug.

Standard Quantity—1

Weight, Approx. 5 lbs.

Retail Price, Each:

Interior Spot No. WS-200.....\$7.50
Permalector No. C-201-GO (Glass only)\$4.00
Bracket only\$4.00

Code:

Interior Spot No. WS-200.....WINSPT
Permalector No. C-201-GOSETUHUNWON
Bracket onlyWINSPOBRAC

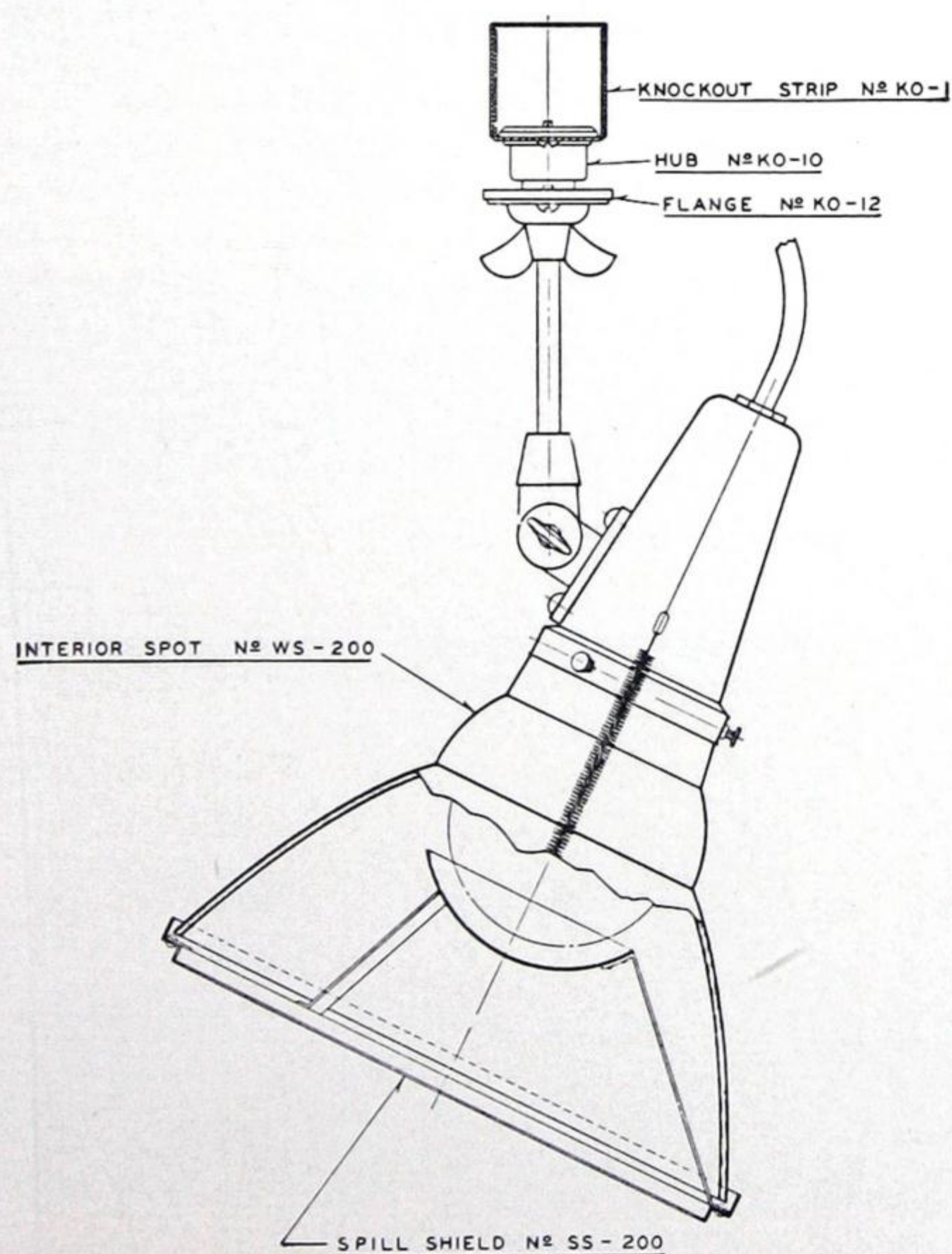
Additional Equipment—for use with No. WS-200.

May Be Mounted on Knockout Strip—No. KO-1 with Hub No. KO-10 and Flange No. KO-12.

For Colored Lighting—use Color-Lite No. 2 or No. 2-DB.

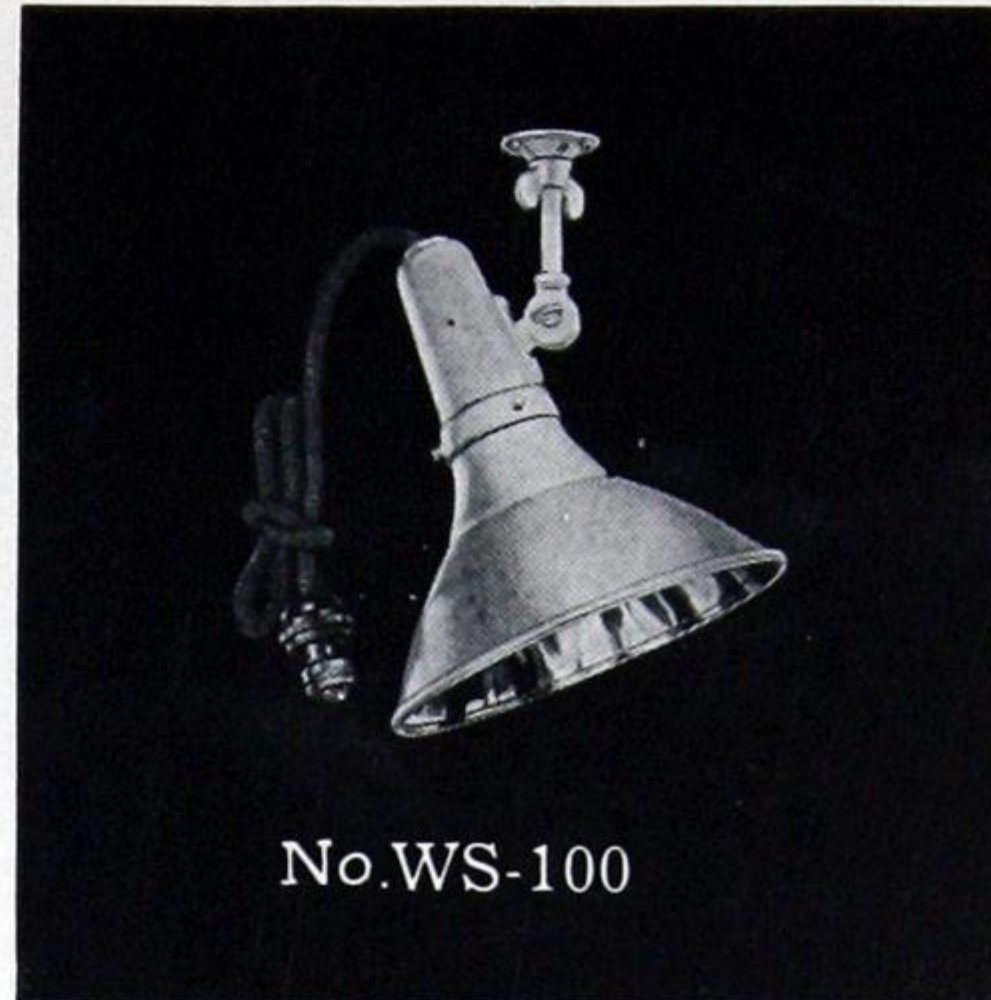
For Louvered Lighting—use Concentric Louver No. EM-54-C.

For Spill Light Elimination—use Spill Shield No. SS-200.

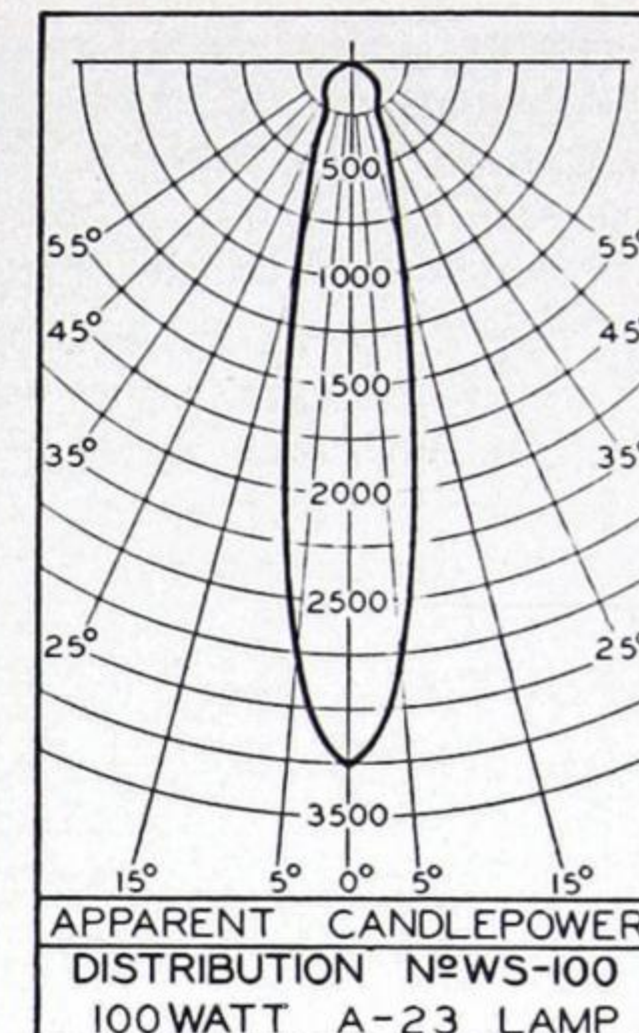


No. WS-200, suspended from Knockout Strip and equipped with Spill Shield No. SS-200.

INTERIOR SPOT NO. WS-100



No. WS-100



Dimensions:

Overall height including bracket—11 inches.
Bottom opening circular—Diameter, 8⅞ inches.

Lamp Size: 100 watt A-23.

Consists of:

Permalector No. C-100.
Bracket—complete as shown, with 30 inches of cord and plug.

Standard Quantity—1

Weight, Approx. 4 lbs.

Retail Price, Each:

Interior Spot No. WS-100.....\$6.75
Permalector No. C-100 (Glass only)\$3.00
Bracket only\$4.00

Code:

Interior Spot No. WS-100.....SPOHUN
Permalector No. C-100.....SEEHUNDER
Bracket onlySPOHUBRAC

Additional Equipment: for use with No. WS-100.

May Be Mounted on Knockout Strip—No. KO-1 with Hub No. KO-10 and Flange No. KO-12.

For Colored Lighting—use Color-Lite No. 6 or No. 6-DB.

For Louvered Lighting—use Concentric Louver No. EM-55-C.

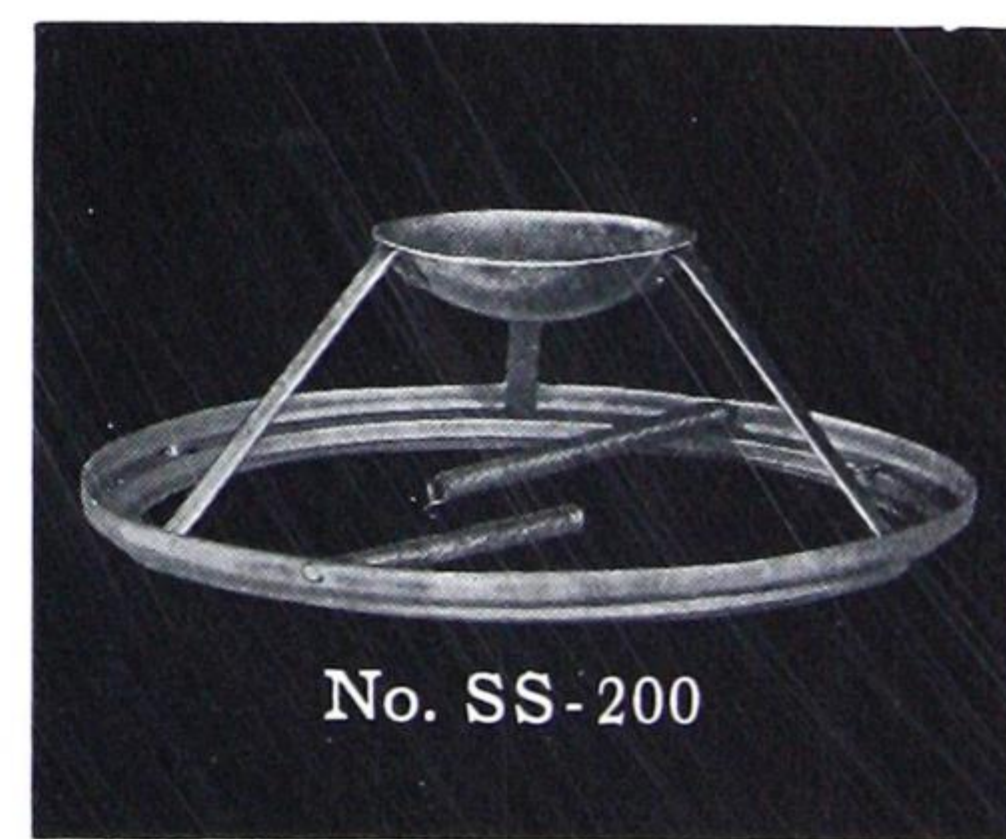
For Spill Light Elimination—use Spill Shield No. SS-100.

SPILL SHIELD FOR USE WITH INTERIOR SPOTS

For the purpose of eliminating the spill light of the Spot Light Reflectors, without interference with the beam of light.

Consists of spun metal ring and metal cup supported on tripod as shown. Suspended by means of springs same as Color-Lites.

Color-Lite Roundels may also be used.



No. SS-200

Spill Shield No.	Used With Interior Spot No.	If Desired Use Color-Lite No.	Std. Quantity	Wt. Approx. Lbs.	Retail Price Each	Code
SS-100	WS-100	F- 2	10	8	\$2.50	SPILONHUN
SS-200	WS-200	F- 4	10	7	3.25	SPILTUHUN
SS-300	WS-300	F-10	10	13	4.00	SPILTRIHUN
SS-500	WS-500	F-13	10	14	4.50	SPILFIHUN

PERMAFLECTOR INTERIOR FLOODS

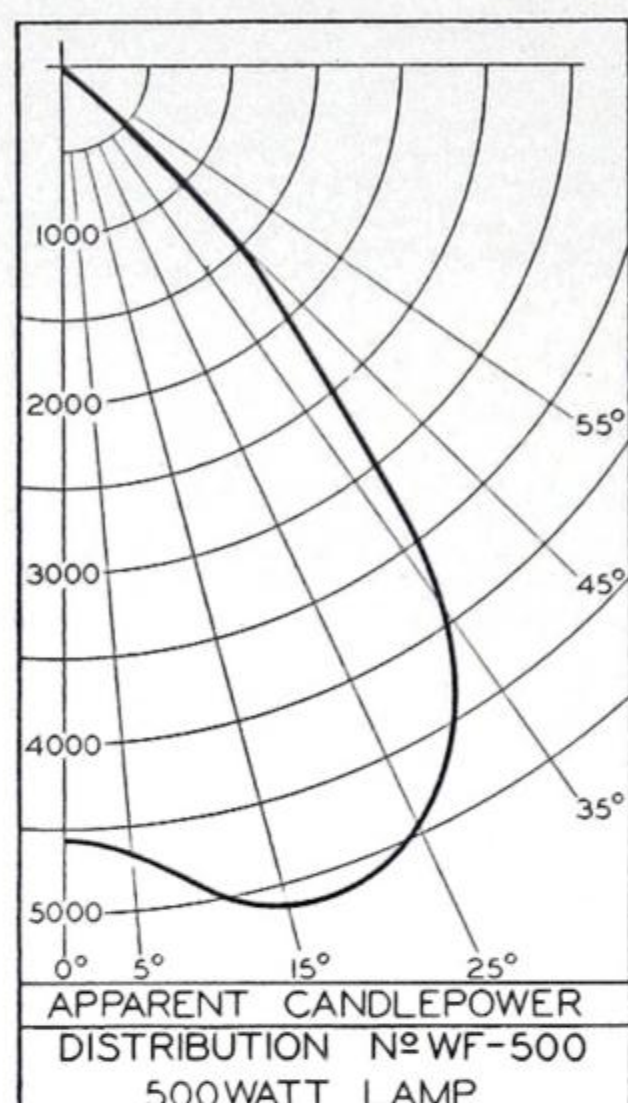
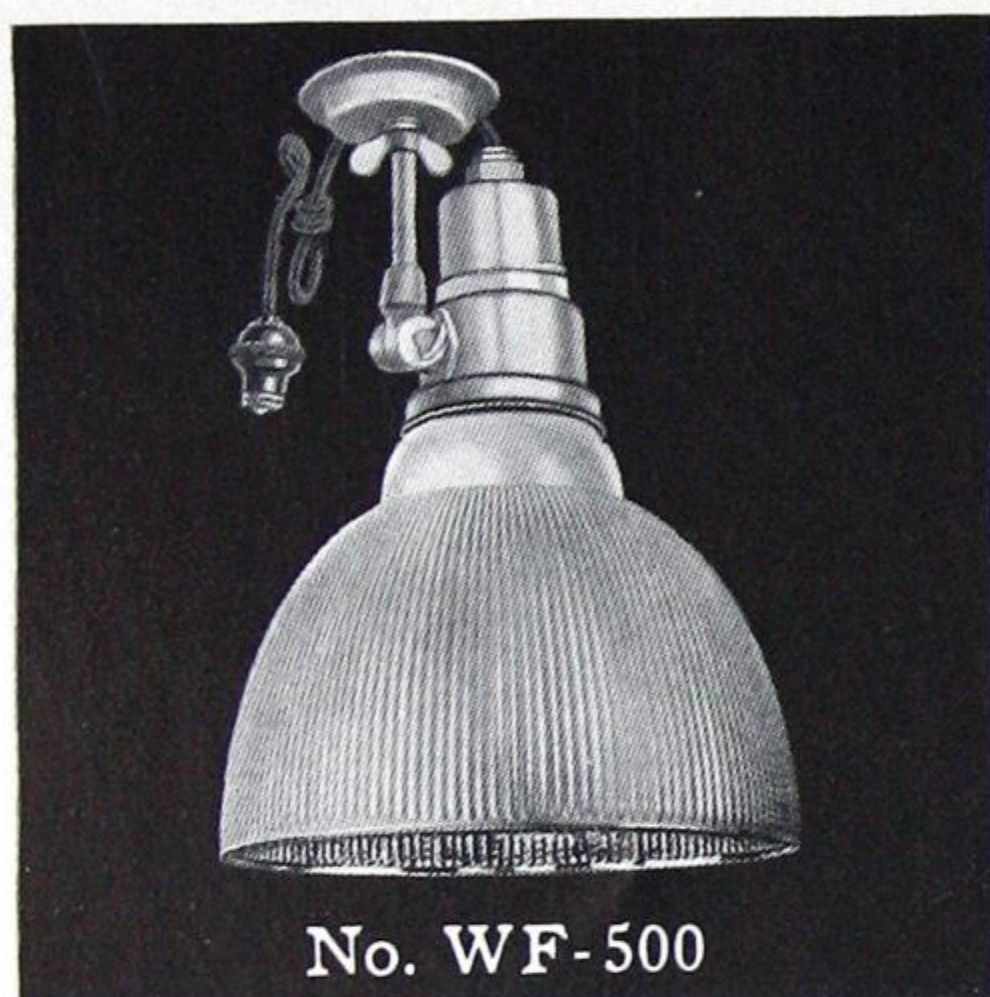
The use of Interior Floods parallels the use of Interior Spots but will be preferred where a somewhat broader beam of light with less intense beam center is desired.

Other Uses—Supplementary illumination of automobile show rooms, where it is desired to flood the entire room in addition to the regular interior and window lighting; and for night lighting and emergency lighting service. A single Flood, placed at the front of a small store, usually over

the entrance, will serve to flood the entire interior during the night as a protection against burglary.

Spacing—The number of Interior Floods to be installed in a window, the same as in the case of Spots, depends upon the psychological effect at which the display man is aiming. Usually two floods or spots should be provided in each window as an auxiliary to the window lighting. Extra convenience outlets should be provided in each window in order to properly serve these units.

INTERIOR FLOOD NO. WF-500



Dimensions:

Overall height including bracket—18 inches.
Bottom opening circular—Diam., 11 $\frac{7}{8}$ inches.

Lamp Size—

500 watt PS-40 or 300 watt PS-35.

Consists of:

Permalector No. E-500-GO.
Bracket—complete as shown, including 30 inches of cord and plug.

Standard Quantity—1

Weight, Approx. 9 lbs.

Retail Price, Each:

Interior Flood No. WF-500 as shown.....\$12.00
Permalector No. E-500-GO (Glass only).....\$6.85
Bracket only\$6.00

Code:

Interior Flood No. WF-500.....WINFLUFIVE
Permalector No. E-500-GOEFIHUGLA
Bracket onlyWINFLIBRAC

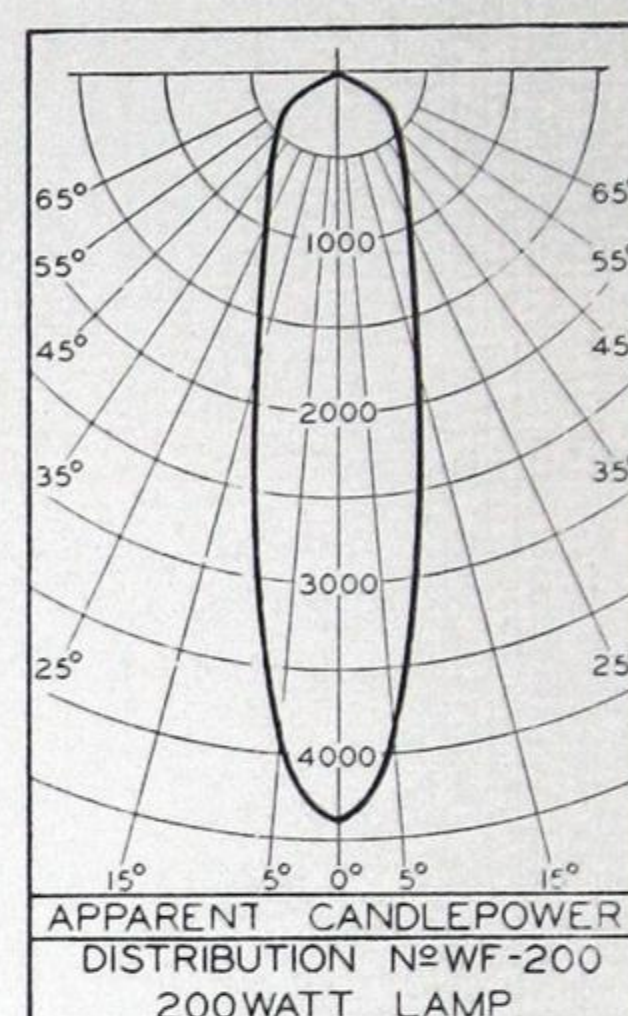
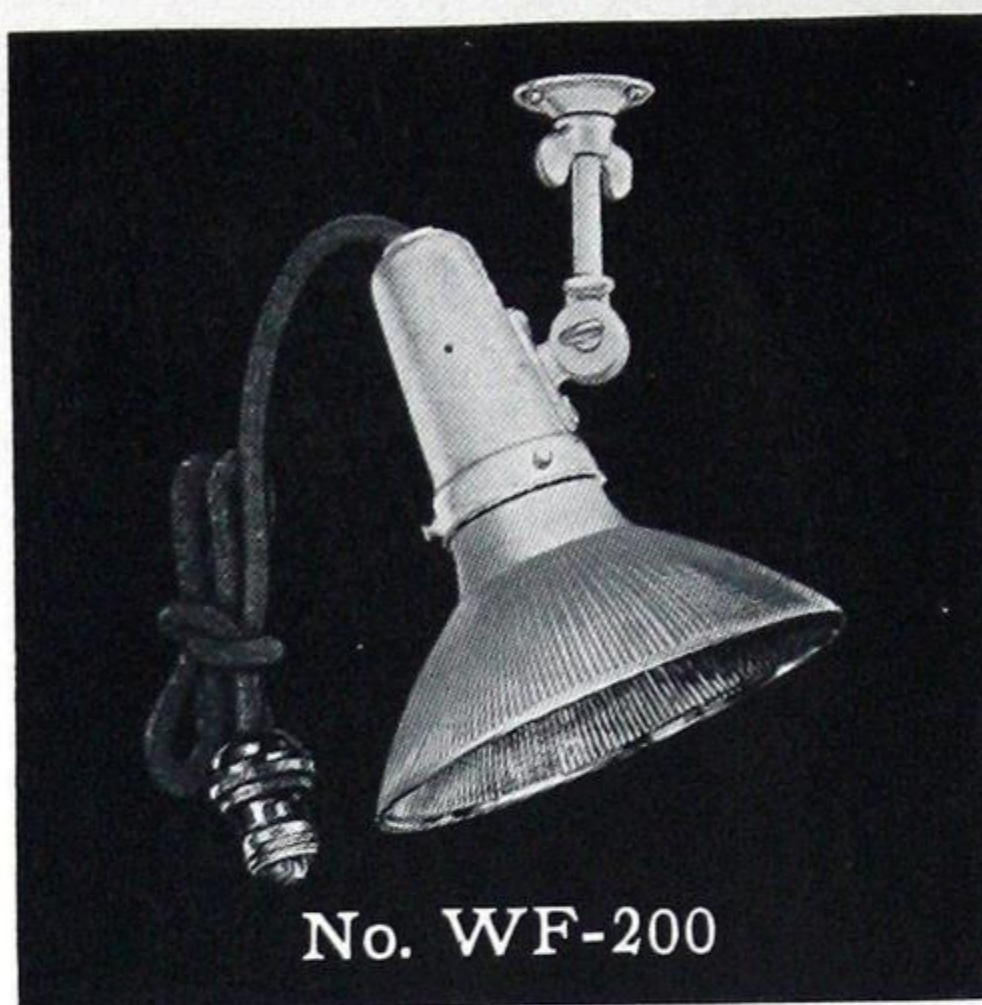
Additional Equipment—for use with No. WF-500.

May Be Mounted on Knockout Strip—No. KO-1 with Hub No. KO-10 and Flange No. KO-12. (When ordering WF-500 for this service ask for **small base plate**).

For Louvered Lighting: Use

Parallel Louver No. EME-500
Concentric Louver No. EME-500-C.

INTERIOR FLOOD NO. WF-200



Dimensions:

Overall height including bracket—11 $\frac{1}{4}$ inches.
Bottom opening circular—Diameter, 9 $\frac{7}{8}$ inches.

Lamp Size: 200 watt PS-30.

Consists of:

Permalector No. I-201-GO.
Bracket—complete as shown, including 30 inches of cord and plug.

Standard Quantity—1

Weight, Approx. 5 lbs.

Retail Price, Each:

Interior Flood No. WF-200.....\$7.50
Permalector No. I-201-GO (Glass only)\$4.00
Bracket only\$4.00

Code:

Interior Flood No. WF-200.....WINFLUD
Permalector No. I-201-GOWINFLUGLA
Bracket onlyWINFLUBRA

Additional Equipment—for use with WF-200.

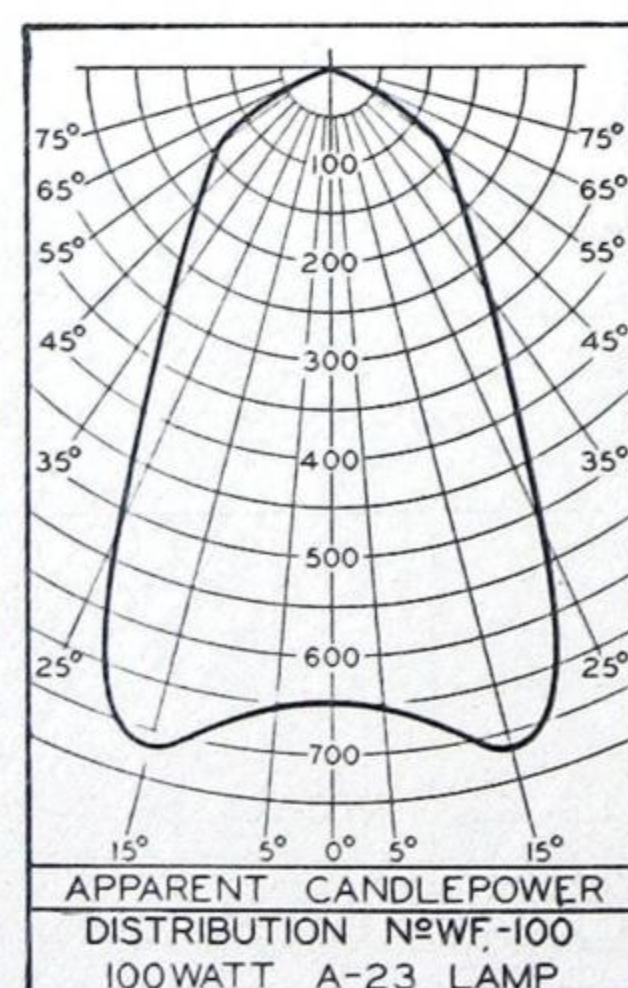
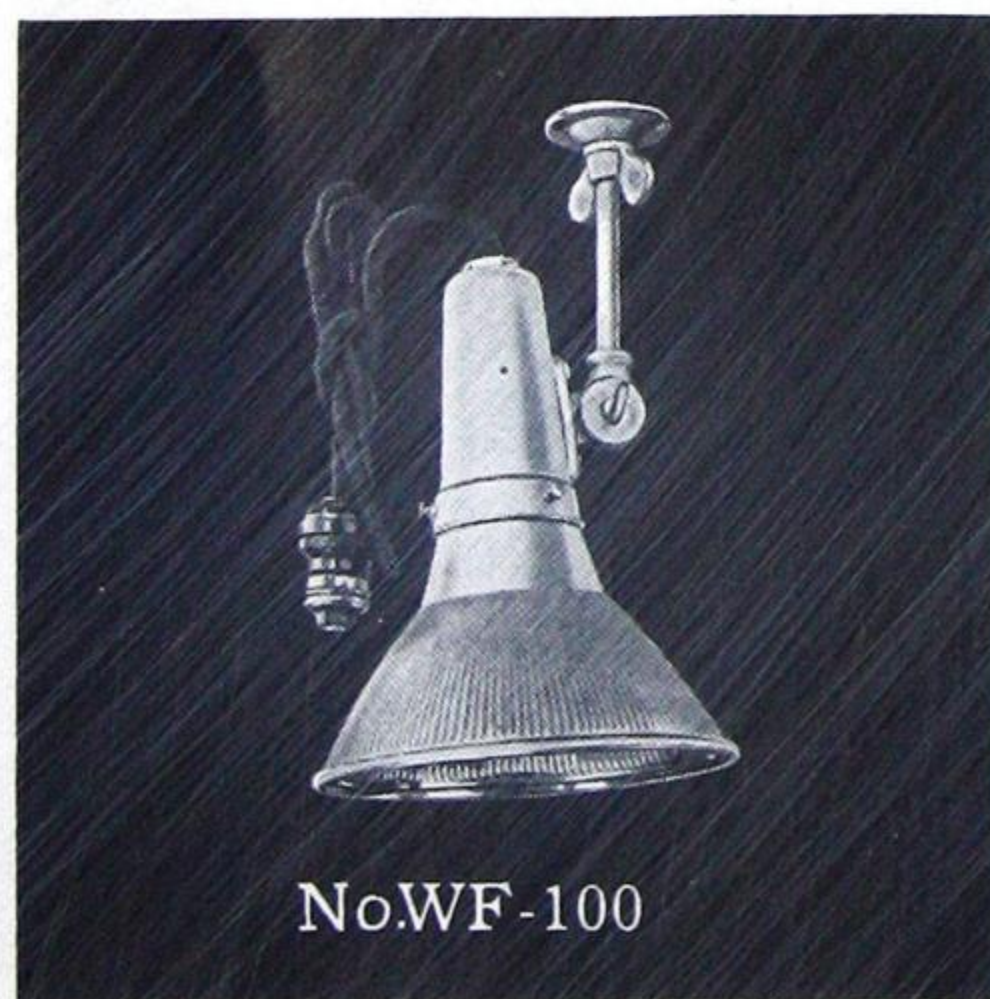
May Be Mounted on Knockout Strip—No. KO-1 with Hub No. KO-10 and Flange No. KO-12.

For Colored Lighting: Use Color-Lite No. 2 or No. 2-DB.

For Louvered Lighting: Use

Parallel Louver No. EM-54.
Concentric Louver No. EM-54-C.

INTERIOR FLOOD NO. WF-100



Dimensions:

Overall height including bracket—10 $\frac{1}{2}$ inches.
Bottom opening circular—Diameter 6 $\frac{3}{4}$ inches.

Lamp Size: 100 watt A-23.

Consists of:

Permalector No. I-60.
Bracket—complete as shown, including 30 inches of cord and plug.

Standard Quantity—1

Weight, Approx. 4 lbs.

Retail Price, Each:

Interior Flood No. WF-100.....\$6.00
Permalector No. I-60 (Glass only).....\$2.00
Bracket only\$4.00

Code:

Interior Flood No. WF-100WINFLUDUN
Permalector No. I-60EYESIX
Bracket onlyWINFLUBRA

Additional Equipment—for use with WF-100.

May Be Mounted on Knockout Strip—No. KO-1 with Hub No. KO-10 and Flange No. KO-12.

For Colored Lighting: Use Color-Lite No. 4-A or No. 4-ADB.

For Louvered Lighting: Use Parallel Louver No. EM-77,
Concentric Louver No. EM-77-C.



PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA

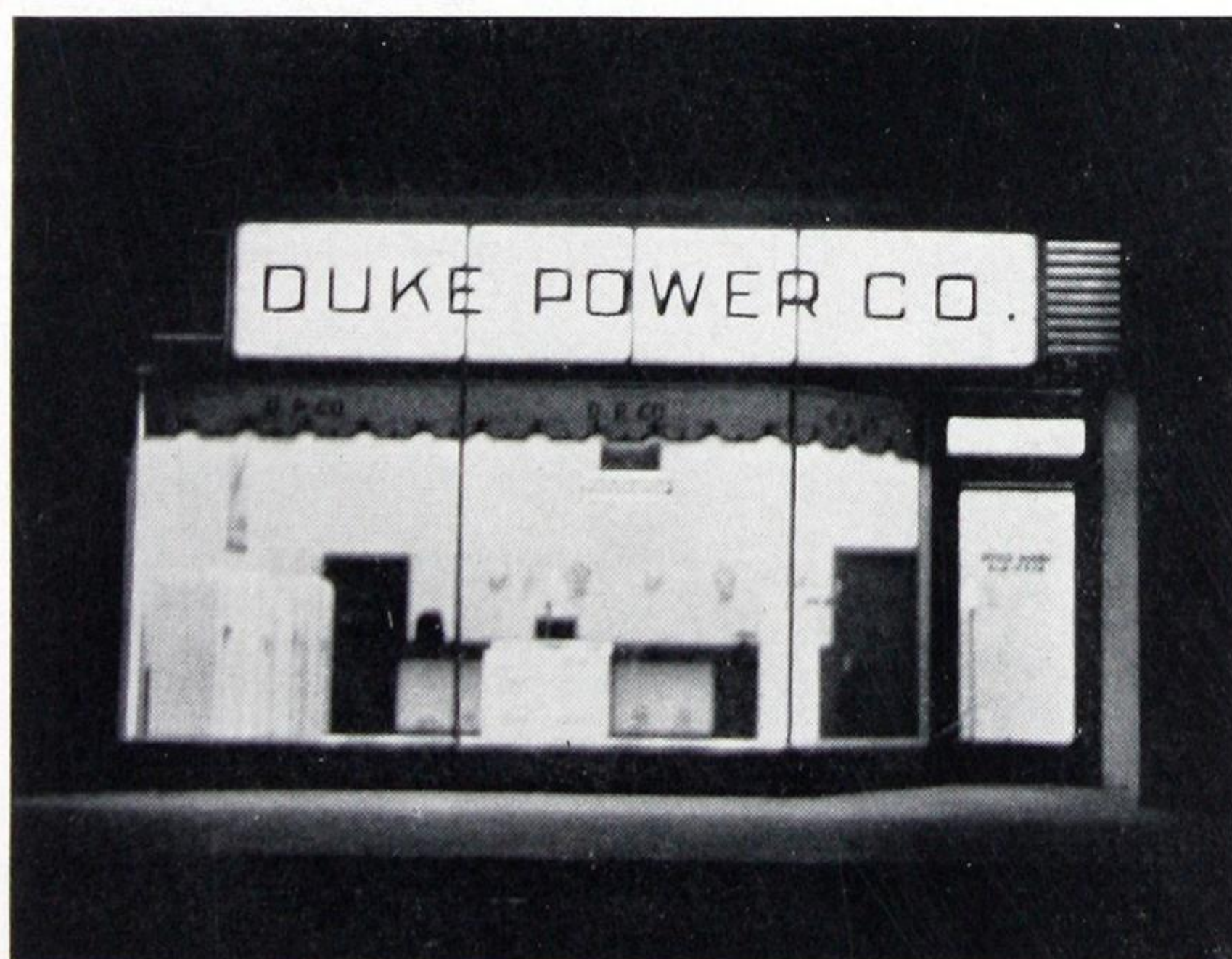
PERMAFLECTOR INSTALLATIONS



539041

Architect—H. H. Lefkowitz, Pittsburgh, Pa.
Electrical Contractor—Marshall Electric Co., Pittsburgh, Pa.

Permafectors No. 99 Series and E-type Symmetric Permafectors make the show windows of Hahn Furniture Co., Pittsburgh, Pa., real sales-building displays that pay dividends. Note the sharp details of the merchandise clear down to the floor.



Illumination Engineer—P. D. Huff, Duke Power Co.
Duke Power Co. has utilized Permafector No. 112 to cleverly illuminate the sign, window and interior of its Kannapolis, N. C., appliance display store.



Architect—R. M. Trimble, Pittsburgh, Pa.
Electrical Contractor—H. A. Bostwick, Pittsburgh, Pa.
Bellevue Market, Bellevue, Pa., uses highly efficient Permafectors No. 55 in its show windows to properly display grocery products.



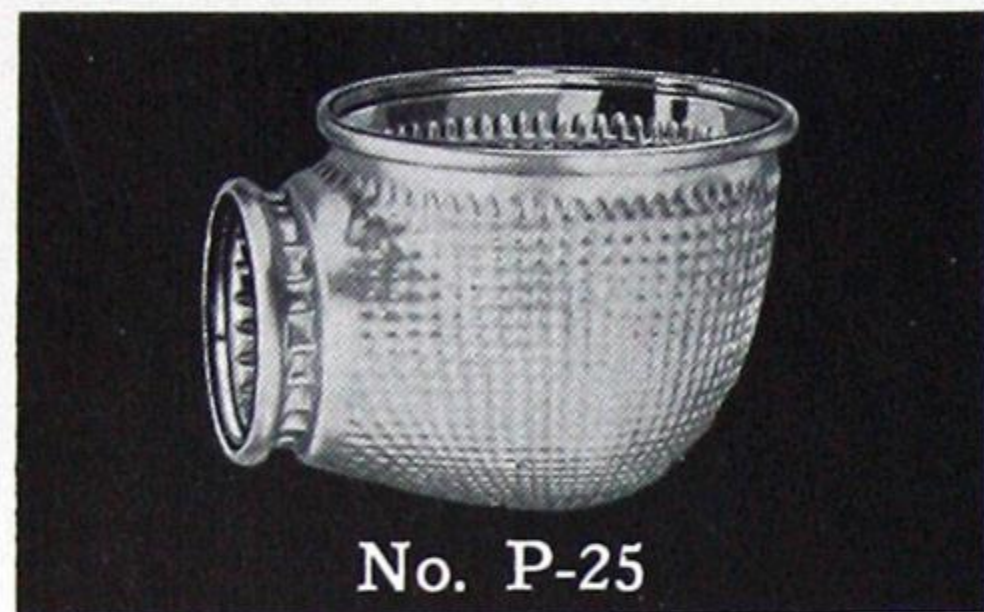
P-TYPE PERMAFLECTORS FOR INDIRECT LIGHTING SERVICE

(Should Not be Used for Down Lighting Service)

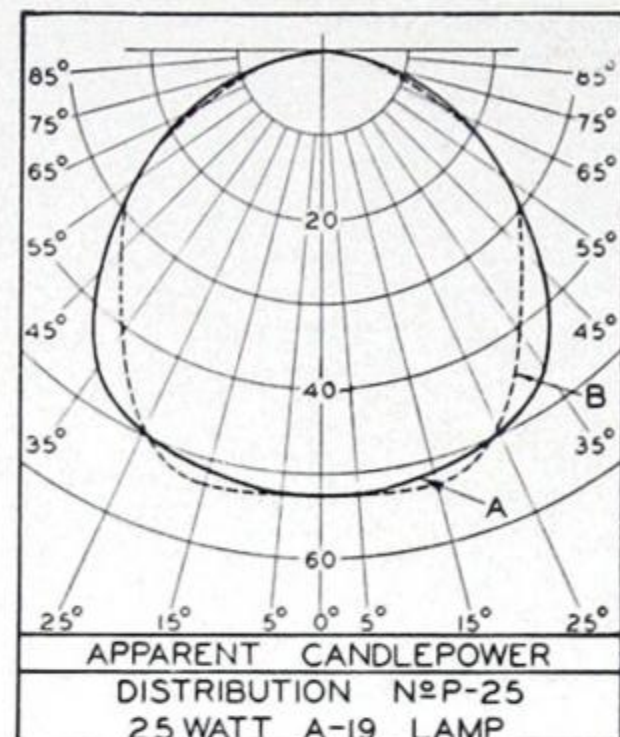
The P-Type Permaflectors are designed for use with lamps in the horizontal position and find their greatest use for indirect lighting from coves. They are also used in shallow

indirect lighting bowls employing a number of lamps radiating horizontally from a center body carrying the sockets.

PERMAFLECTOR NO. P-25



No. P-25



Standard Quantity—24
Retail Price, Each.....\$1.75
CodePATUFI

Weight, Approx. 13 lbs.

Minimum Spacing—6 inches on centers.
Dimensions—Opening, $3\frac{1}{8}$ inches diameter; Height, $3\frac{1}{4}$ inches; Length, $4\frac{1}{8}$ inches.

Lamp Size—25 watt A-19; 40 watt A-19.

Additional Equipment—for use with No. P-25.

Holder:

For Porcelain Angle Socket No. 3—Use
 $2\frac{1}{4}$ " Form "S" Holder for 25 Watt A-19 Lamp.
 $2\frac{1}{4}$ " Form "SL" Holder for 40 Watt A-19 Lamp.
For Grooved Porcelain Sockets—Use
 $2\frac{1}{4}$ " Form "SR" Holder for 25 Watt A-19 Lamp.

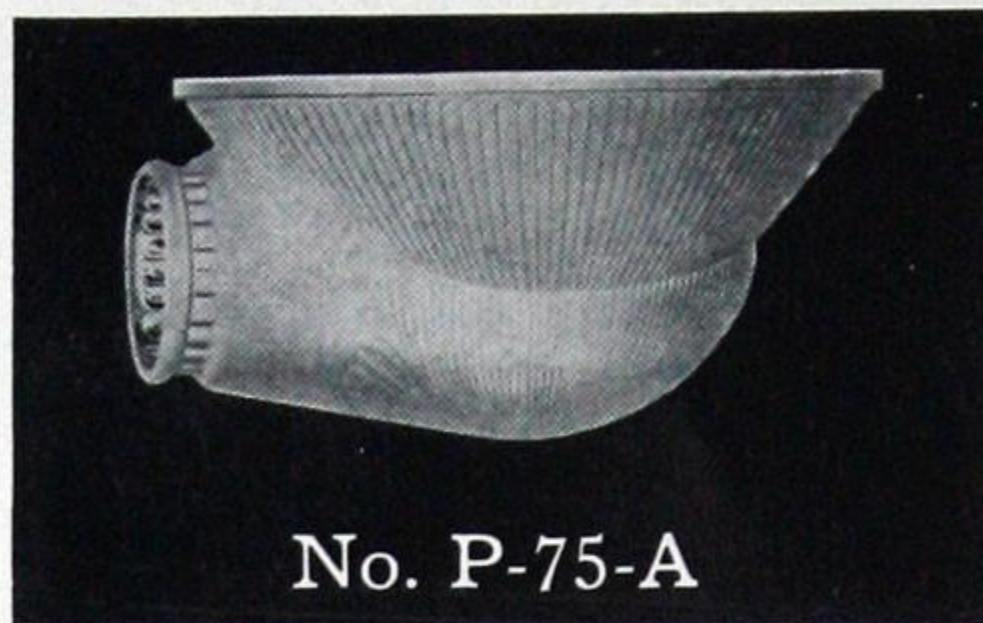
May Be Installed With:

Outlet Box Cover Assembly No. B-2-3 $\frac{1}{4}$ or B-2-4 with $2\frac{1}{4}$ " Form 'S' or 'SL' holder.

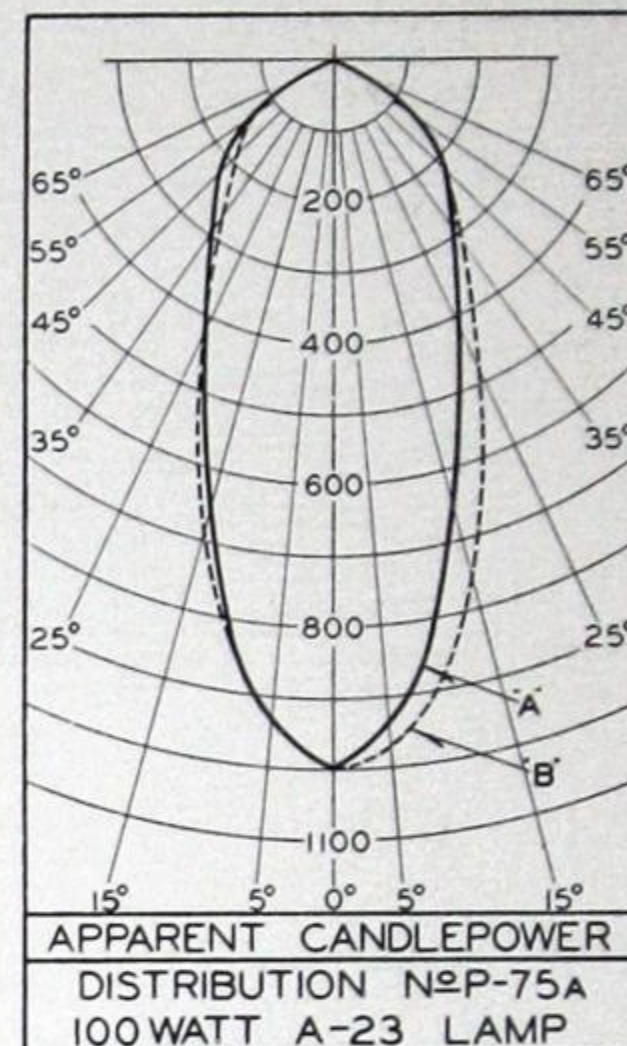
May Be Mounted on:

Conduit No. 2-A with $2\frac{1}{4}$ " Form 'S' or 'SL' holder.

PERMAFLECTOR NO. P-75-A



No. P-75-A



Standard Quantity6

WeightApprox. 7 lbs.

Retail Price, Each.....\$2.50

CodePASEFA

Minimum Spacing— $7\frac{3}{4}$ " on centers.

Dimensions—Opening, $6\frac{3}{4}$ in. dia.; Height, $3\frac{5}{8}$ in.; Length, 7 in.

Lamp Size—100 watt A-23.

Additional Equipment—for use with No. P-75-A.

Holder:

For Porcelain Angle Socket No. 3—Use
 $2\frac{1}{4}$ " Form "S" Holder.
For Grooved Porcelain Socket—Use
 $2\frac{1}{4}$ " Form "SR" Holder.

May Be Installed With:

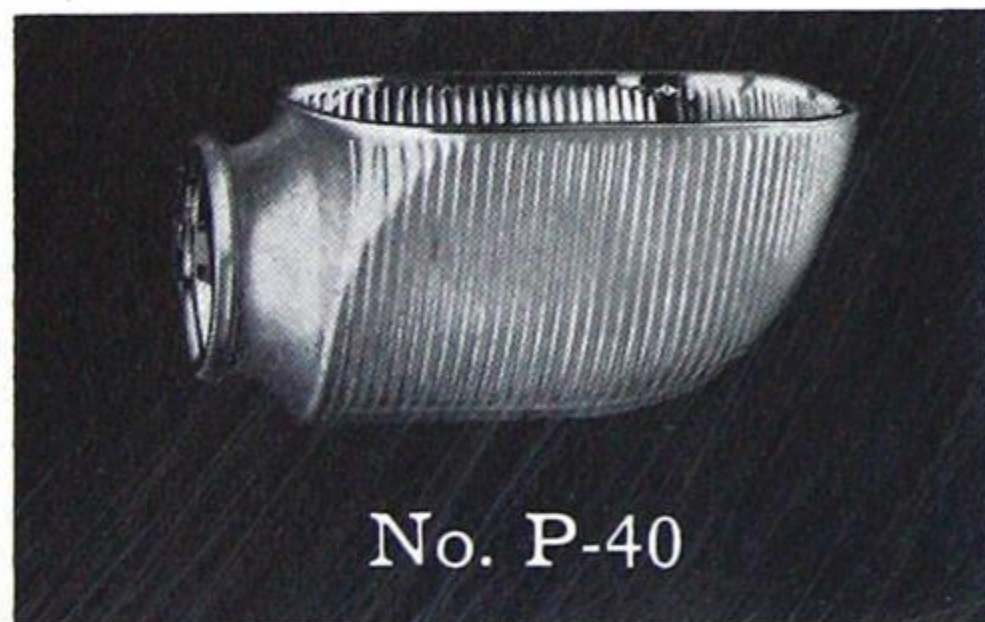
Outlet Box Cover Assembly No. B-2-3 $\frac{1}{4}$ or B-2-4 with $2\frac{1}{4}$ " Form 'S' holder.

May Be Mounted on:

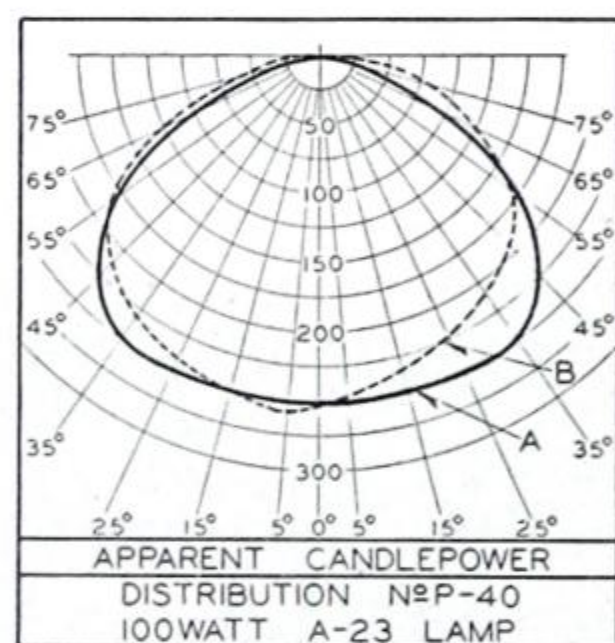
Conduit No. 2-A with $2\frac{1}{4}$ " Form 'S' holder.

For Colored Lighting: Use Color-Lite No. 4-A or No. 4-ADB.

PERMAFLECTOR NO. P-40



No. P-40



Standard Quantity—24
Retail Price, Each.....\$2.00
CodePAFORT

Weight, Approx. 18 lbs.

Minimum Spacing— $7\frac{3}{4}$ inches on centers.

Dimensions—Height, $2\frac{3}{4}$ in., Width, $4\frac{1}{4}$ in., Length, $5\frac{1}{2}$ in.

Lamp Size—60 watt A-19; 75 watt A-21; 100 watt A-23.

Additional Equipment—for use with No. P-40.

Holder:

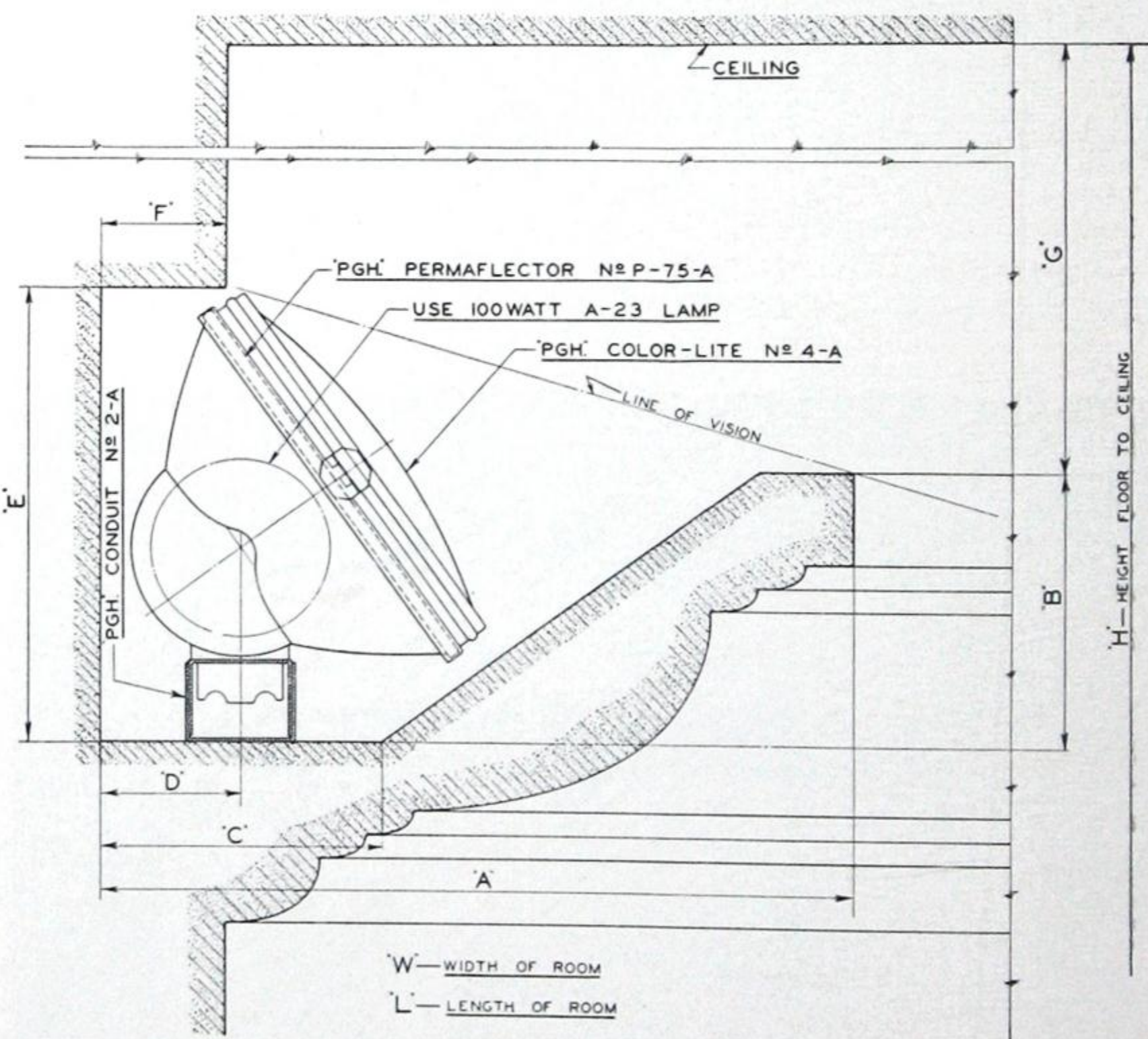
For Porcelain Angle Socket No. 3—Use
 $2\frac{1}{4}$ " Form "S" Holder for 60 watt A-19 Lamp.
 $2\frac{1}{4}$ " Form "SL" Holder for 75 watt A-21 Lamp.
 $2\frac{1}{4}$ " Form "L" Holder for 100 watt A-23 Lamp.
For Grooved Porcelain Sockets—Use
 $2\frac{1}{4}$ " Form "SR" Holder for 60 watt A-19 Lamp.
 $2\frac{1}{4}$ " Form "LR" Holder for 100 watt A-23 Lamp.

May Be Installed With:

Outlet Box Cover Assembly No. B-2-3 $\frac{1}{4}$ or B-2-4 with $2\frac{1}{4}$ " Form 'S', 'SL' or 'L' holder.

May Be Mounted on:

Conduit No. 2-A with $2\frac{1}{4}$ " Form 'S', 'SL' or 'L' holder.

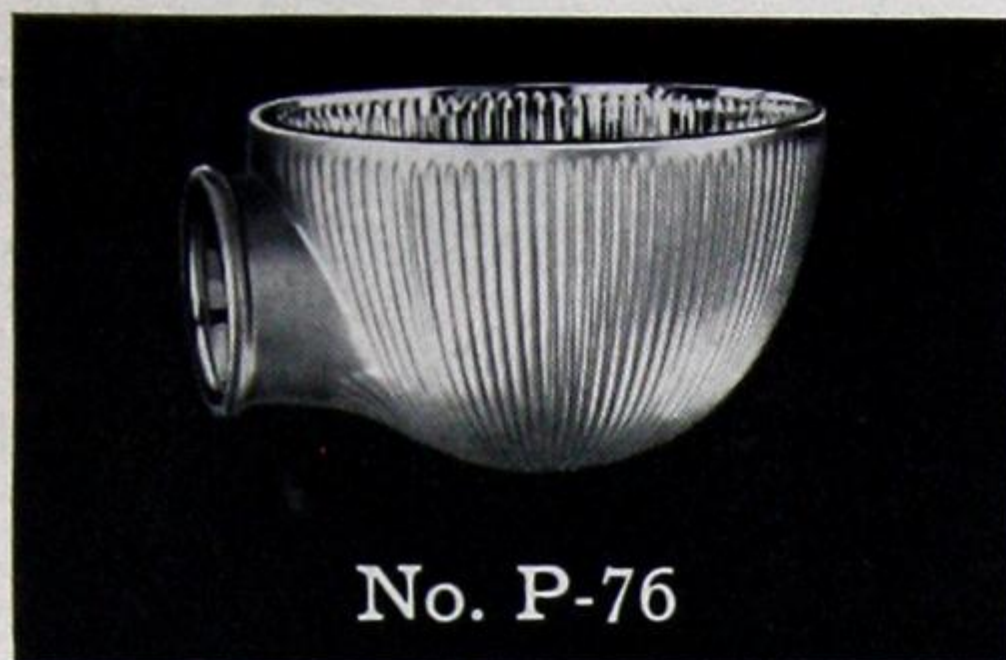


COVE LIGHTING DESIGN

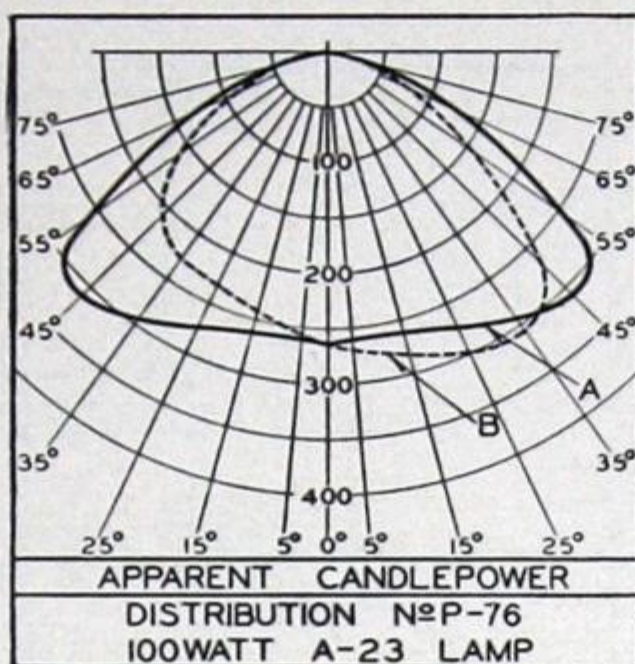
In the above sketch the essential dimensions to be supplied to our engineering department when requesting a recommendation are indicated by the letters, A, B, C, D, E, F, G, H, L, W. Although a flat ceiling is shown, it is to be understood that an arched ceiling may be treated in a similar manner, in fact can be more easily handled in most cases.

The Color-Lite No. 4 is employed where colored illumination is desired.

PERMAFLECTOR NO. P-76



No. P-76



Standard Quantity—24
 Weight, Approx. 15 lbs.
 Retail Price, Each.....\$2.00
 CodePASESIX
 Minimum Spacing—7½ inches on centers.
 Dimensions—Opening, 4¾ in. dia.; Height, 3 in., Length, 5⅜ in.
 Lamp Size—60 watt A-19. 75 watt A-21. 100 watt A-23.
 Additional Equipment—for use with No. P-76.

Holder:

For Porcelain Angle Socket No. 3—Use
 2¼" Form "S" Holder for 60 watt A-19 Lamp.
 2¼" Form "SL" Holder for 75 watt A-21 Lamp.
 2¼" Form "L" Holder for 100 watt A-23 Lamp.
 For Grooved Porcelain Socket—Use
 2¼" Form "SR" Holder for 60 watt A-19 Lamp.
 2¼" Form "LR" Holder for 100 watt A-23 Lamp.

May Be Installed With:

Outlet Box Cover Assembly No. B-2-¾ or B-2-4 with 2¼" Form 'S', 'SL' or 'L' holder.

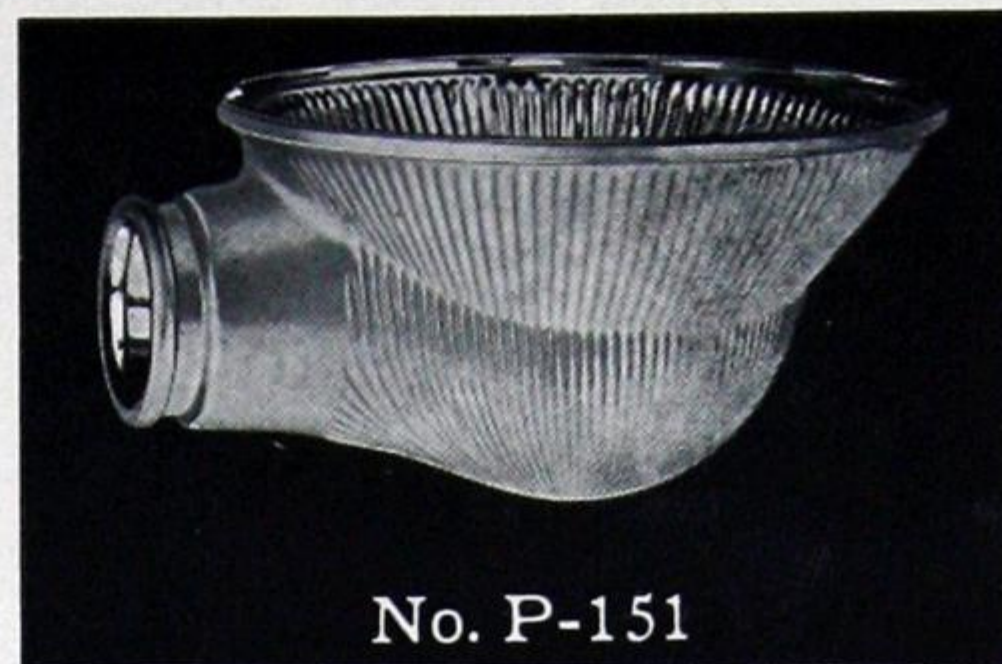
May Be Mounted on:

Conduit No. 2-A with 2¼" Form 'S', 'SL' or 'L' holder.

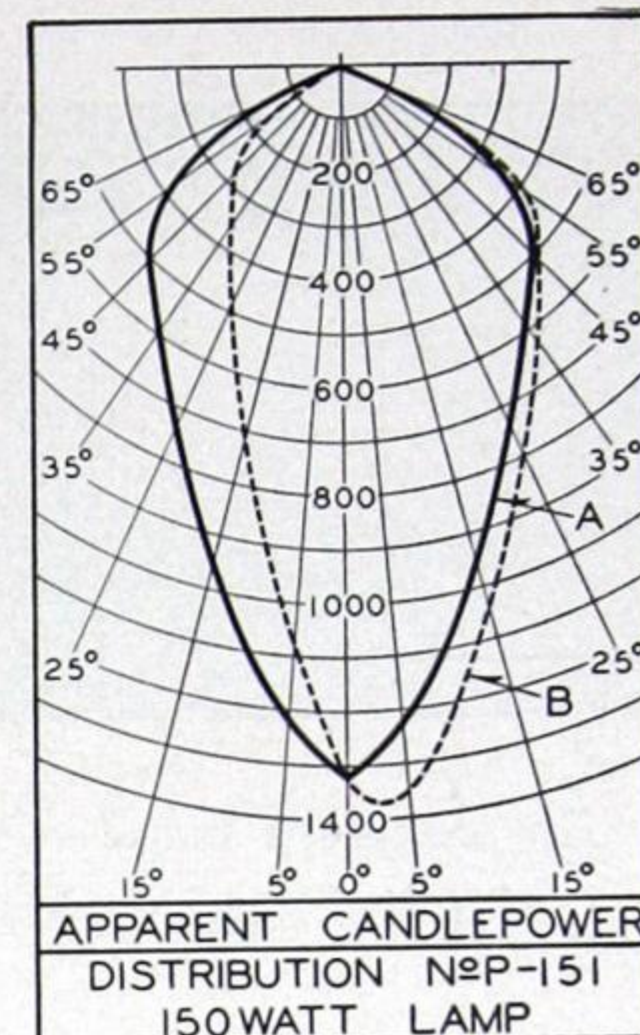
For Colored Lighting: Use

Color-Lite No. 12-A or No. 12-ADB.

PERMAFLECTOR NO. P-151



No. P-151



Standard Quantity6
 WeightApprox. 7 lbs.
 Retail Price, Each.....\$2.75
 CodePEEHUNFONE
 Minimum Spacing—8¼ inches on centers.
 Dimensions—Opening, 6¾ inches diameter; Height, 3⅞ inches; Length 7⅞ inches.
 Lamp Size—150 watt A-25.
 Additional Equipment—for use with No. P-151.

Holder:

For Porcelain Angle Socket No. 3—Use
 2¼" Form "S" Holder.
 For Grooved Porcelain Socket—Use
 2¼" Form "SR" Holder.

May Be Installed With:

Outlet Box Cover Assembly No. B-2-¾ or B-2-4 with 2¼" Form 'S' holder.

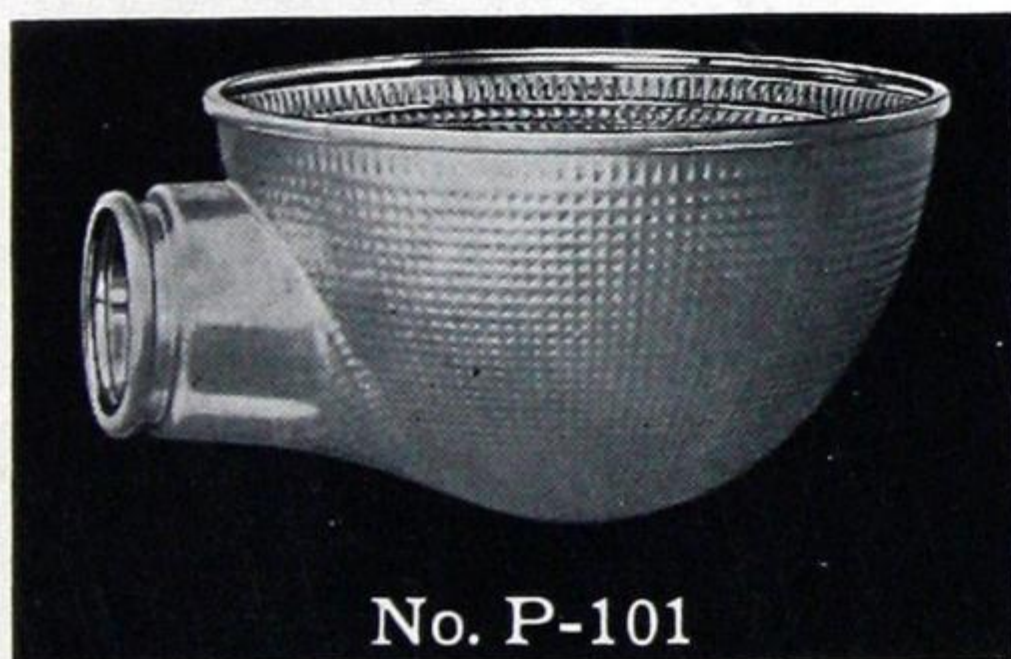
May Be Mounted on:

Conduit No. 2-A with 2¼" Form 'S' holder.

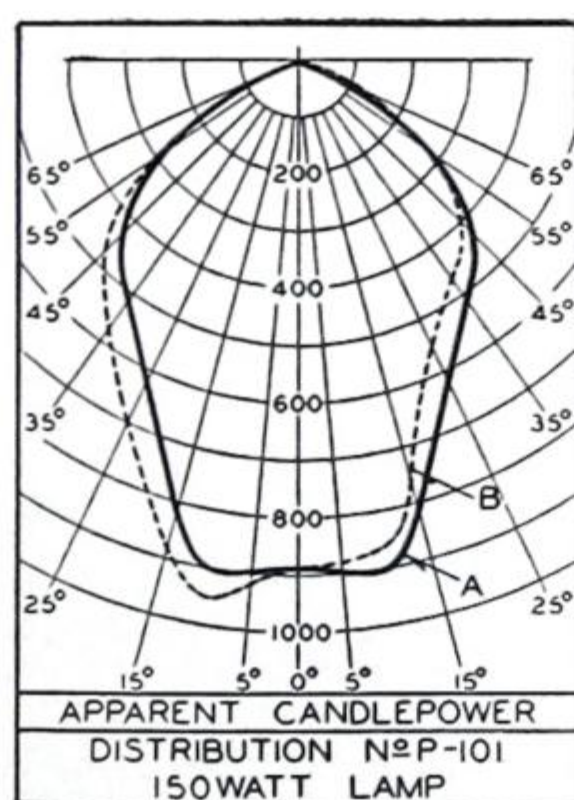
For Colored Lighting: Use

Color-Lite No. 4-A or No. 4-ADB.

PERMAFLECTOR NO. P-101



No. P-101



Standard Quantity—6
 Weight, Approx. 8 lbs.
 Retail Price, Each.....\$2.50
 CodePAHUNDONE
 Minimum Spacing—9 inches on centers.
 Dimensions—Opening, 6¾ in. dia.; Height, 3⅞ in.; Length, 7¾ in.
 Lamp Size—150 watt A-25.
 Additional Equipment—for use with No. P-101.

Holder:

For Porcelain Angle Socket No. 3—Use
 2¼" Form "S" Holder.
 For Grooved Porcelain Socket—Use
 2¼" Form "SR" Holder.

May Be Installed With:

Outlet Box Cover Assembly No. B-2-¾ or B-2-4 with 2¼" Form "S" holder.

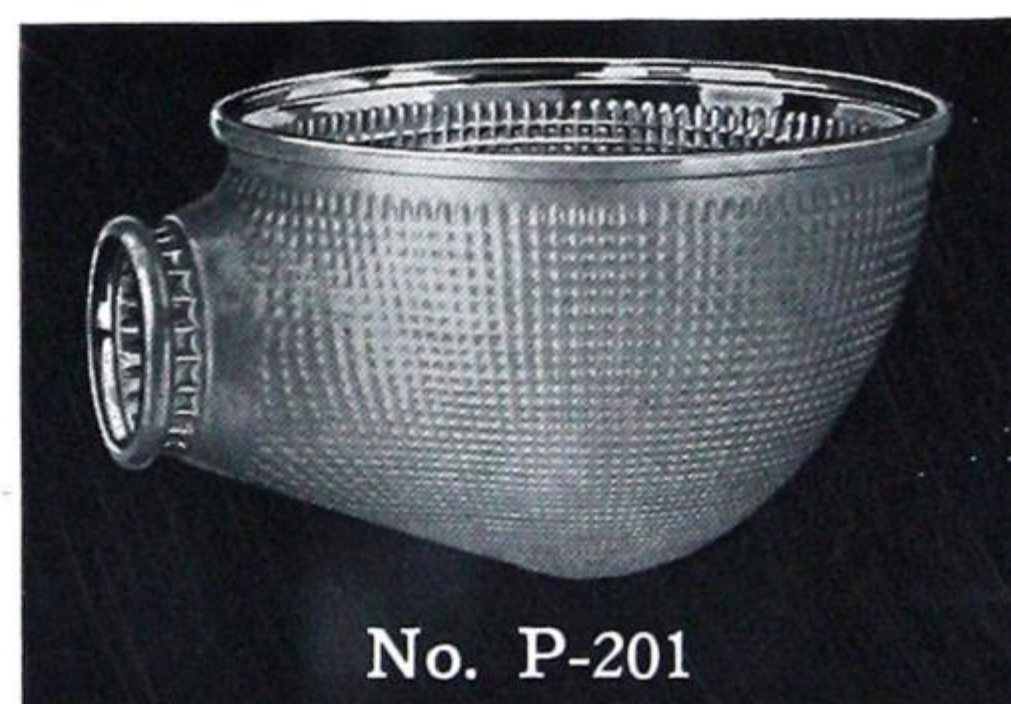
May Be Mounted on:

Conduit No. 2-A with 2¼" Form 'S' holder.

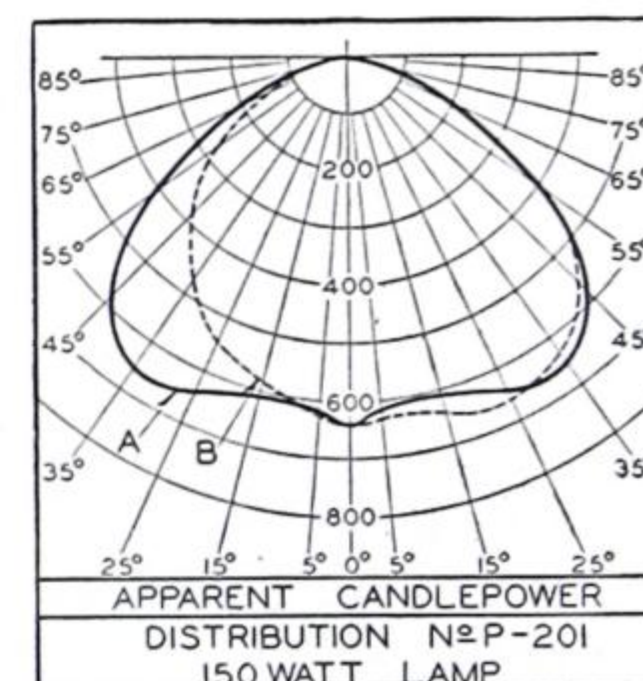
For Colored Lighting: Use

Color-Lite No. 4-A or No. 4-ADB.

PERMAFLECTOR NO. P-201



No. P-201



Standard Quantity—6
 Weight, Approx. 9 lbs.
 Retail Price, Each.....\$3.00
 CodePATTUOWON
 Minimum Spacing—9½ inches on centers.
 Dimensions—Opening, 6¾ inches diameter; Height, 4⅞ inches; Length, 7¾ inches.
 Lamp Size—150 watt A-25; 200 watt PS-30.
 Additional Equipment—for use with No. P-201.

Holder:

For Porcelain Angle Socket No. 3—Use
 2¼" Form "S" Holder for 150 watt A-25 Lamp.
 2¼" Form "L" Holder for 200 watt PS-30 Lamp.
 For Grooved Porcelain Socket—Use
 2¼" Form "SR" Holder for 150 watt A-25 Lamp.
 2¼" Form "LR" Holder for 200 watt PS-30 Lamp.

May Be Installed With:

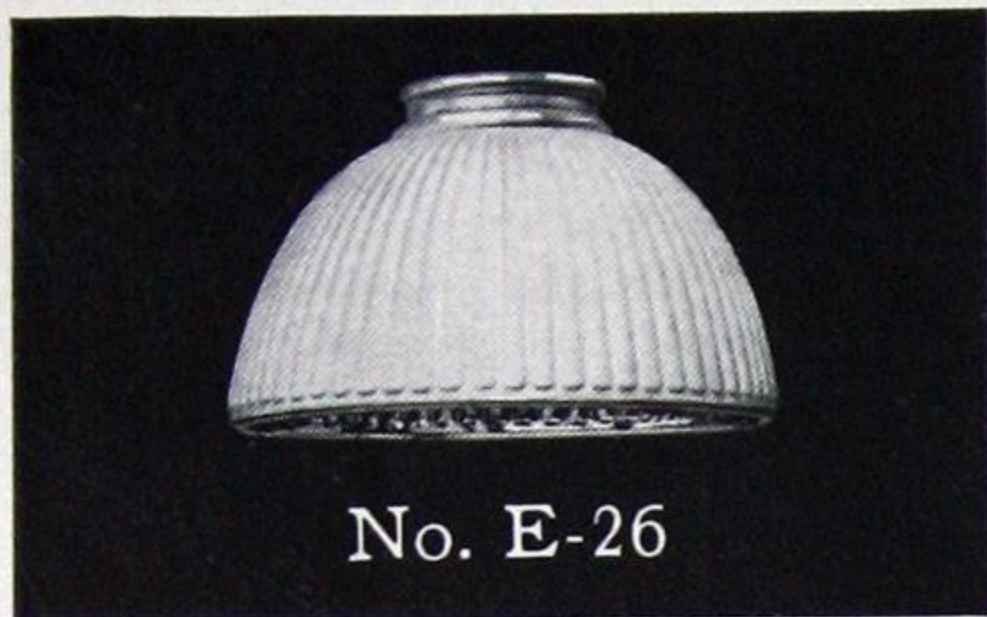
Outlet Box Cover Assembly No. B-2-¾ or B-2-4 with 2¼" Form 'S' or 'L' holder.

For Colored Lighting: Use

Color-Lite No. 4-A or No. 4-ADB.

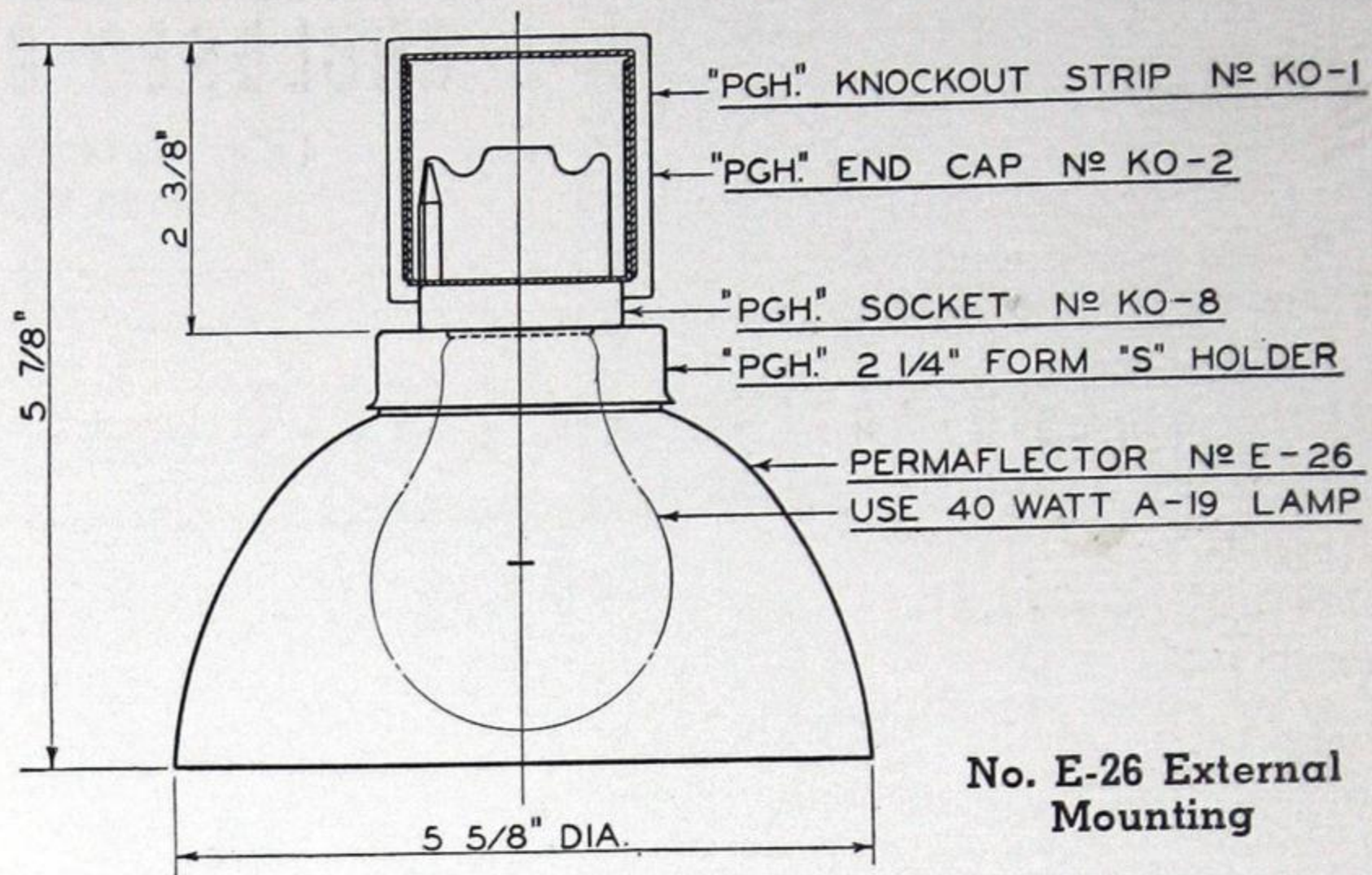
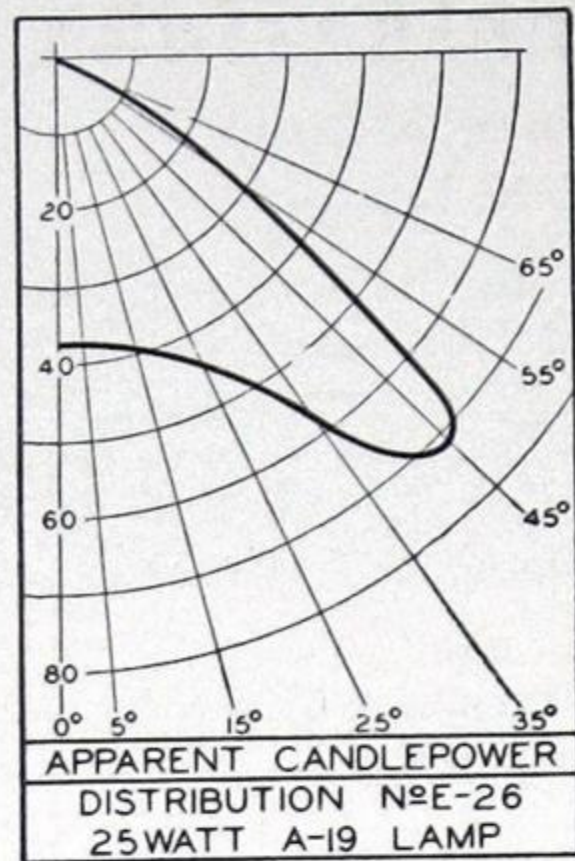


PERMAFLECTOR NO. E-26 SERIES



No. E-26

An excellent small recessed unit
for lighting in residences.



No. E-26 External
Mounting

COMBINATION NO. E-26-2

(For Recessed Installation)
(Use 60 Watt A-19 Lamp)

Consists of:

Permaflector No. E-26.
Outlet Box Cover Assembly No. B-1-3 1/4-SL.
Flush Mounting Ring No. 28.

Standard Quantity—20

Weight, Approx. 29 lbs.

Retail Price, Each

\$2.70

Code

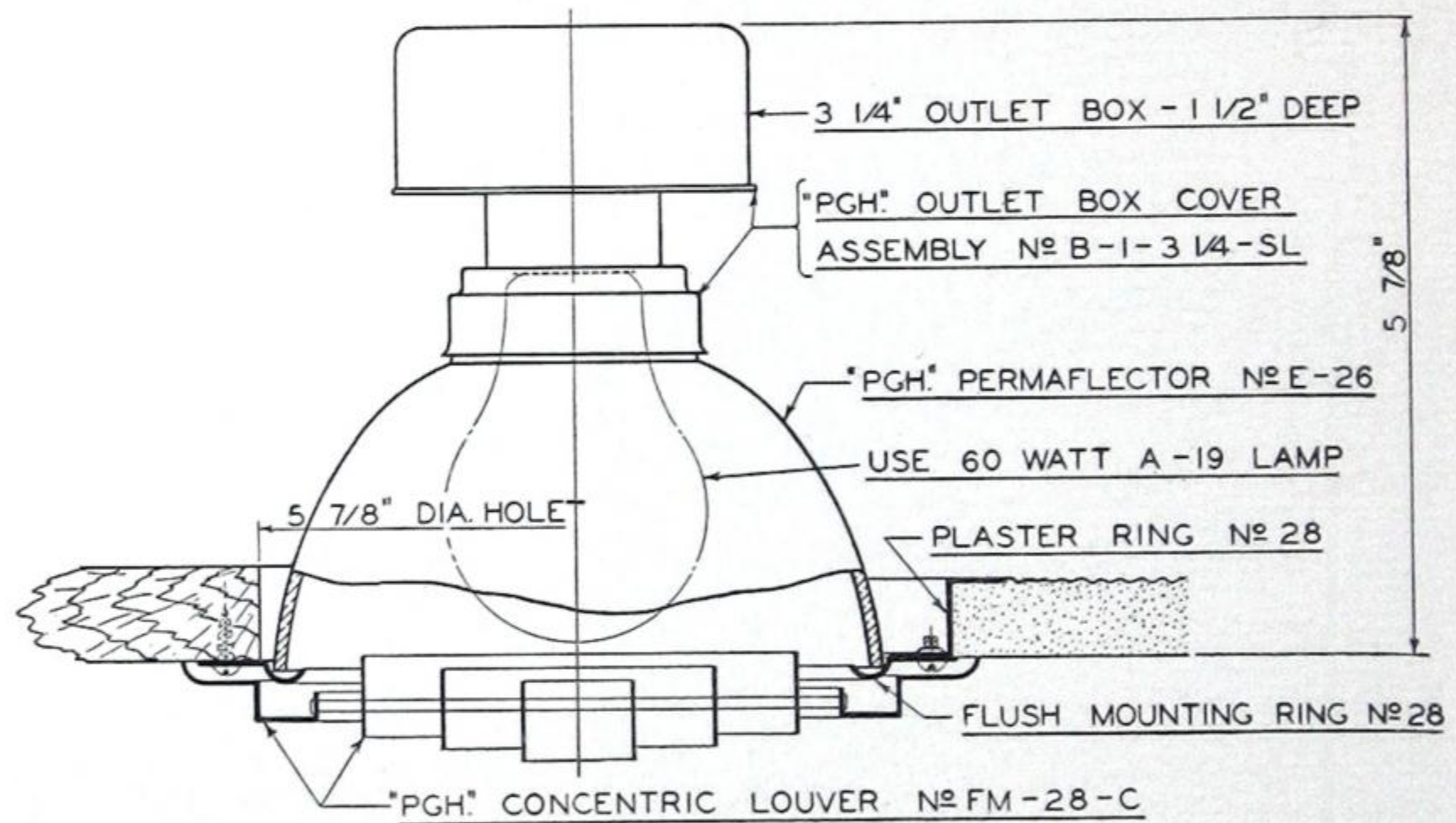
ETUSIXTU

Ceiling Space Required:

Space Above Ceiling Line—5 7/8 inches.
Opening to be Cut in Ceiling, Circular—Diam., 5 7/8 inches.

Additional Equipment—for use with No. E-26-2.

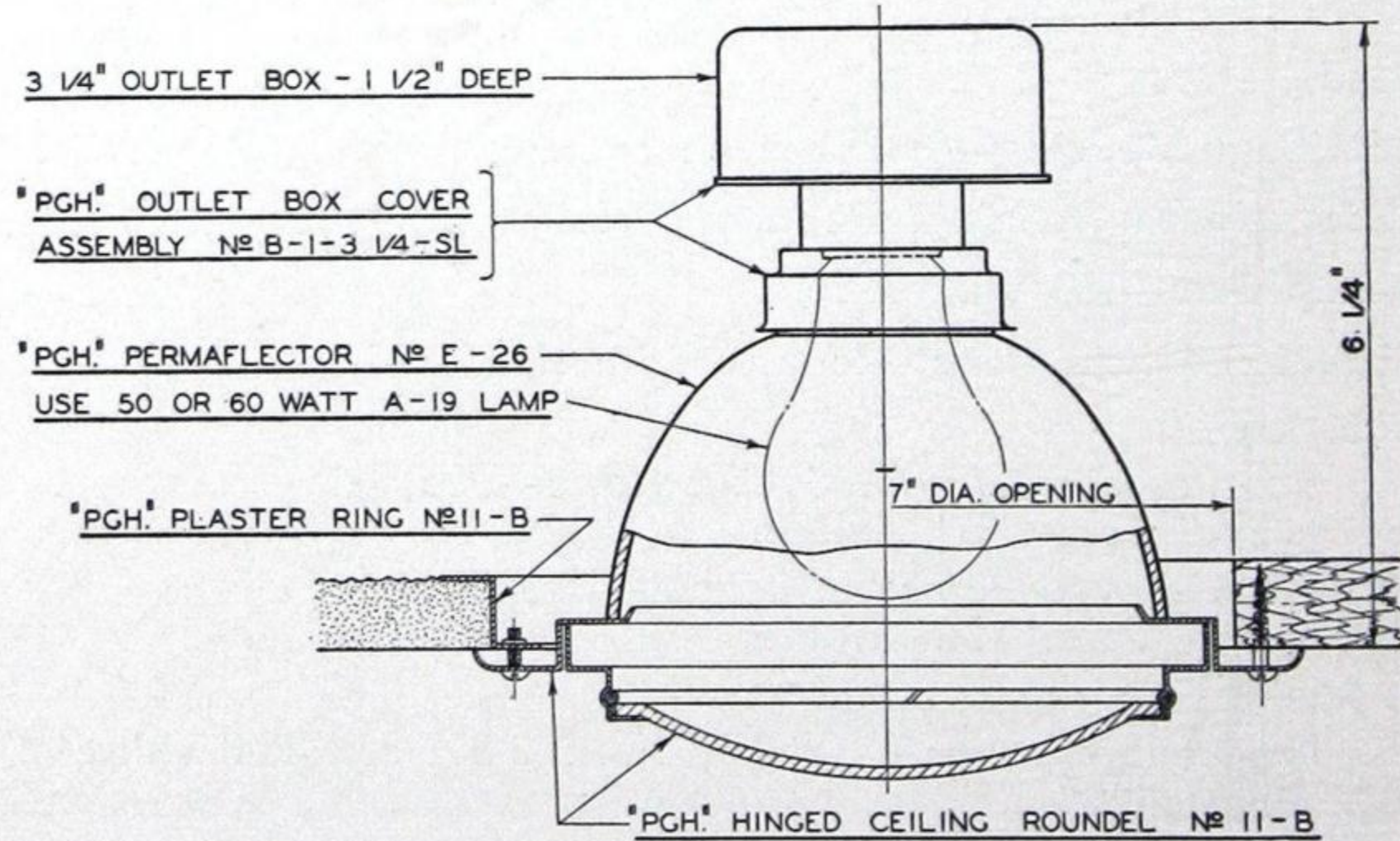
For Plaster Ceiling—Use Plaster Ring No. 28.
For Louvered Lighting—Use Concentric Louver No. FM-28-C.



HALF SECTION
THRU WOOD CEILING

HALF SECTION
THRU PLASTER CEILING

E-26-2 Recessed in Ceiling and Louvered



HALF SECTION
THRU PLASTER CEILING

HALF SECTION
THRU WOOD CEILING

No. E-26-4 Recessed in Ceiling

PERMAFLECTOR NO. E-26

Standard Quantity—20

Weight, Approx. 14 lbs.

Retail Price, Each

\$1.80

Code

ETUSIX

Additional Equipment—for use with No. E-26.

Holder:

For Grooved Porcelain Socket—Use
2 1/4\" Form "SR" Holder for 25 Watt A-19 Lamp.
For Porcelain Sockets No. 1 or No. KO-8—Use
2 1/4\" Form "S" Holder for 25 Watt A-19 Lamp.
2 1/4\" Form "SL" Holder for 60 Watt A-19 Lamp.

May Be Installed With: Outlet Box Cover Assembly No.
B-1-3 1/4 or B-1-4 with 2 1/4\" Form "S" or "SL" Holder.

May Be Mounted On:

Conduit No. 1 or Knockout Strip No. KO-1 with 2 1/4\" Form
"S" or "SL" Holder.
Conduit No. 12 with 2 1/4\" Form "SR" Holder.

COMBINATION NO. E-26-4

(Hinged Ceiling Roundel Installation)
(Use 60 Watt A-19 Lamp)

Consists of:

Permaflector No. E-26.
Outlet Box Cover Assembly No. B-1-3 1/4-SL.
Hinged Ceiling Roundel No. 11-B.

Standard Quantity—20

Weight, Approx. 38 lbs.

Retail Price, Each

\$5.15

Code

ETUSIXFO

Ceiling Space Required:

Space Above Ceiling Line—6 1/4 inches.
Opening to be Cut in Ceiling, Circular—Diam., 7 inches.

Additional Equipment—for use with No. E-26-4.

For Plaster Ceiling—Use Plaster Ring No. 11-B.

COMBINATION NO. E-26-5

(Hinged Concentric Louver Installation)
(Use 60 Watt A-19 Lamp)

Consists of:

Permaflector No. E-26.
Outlet Box Cover Assembly No. B-1-3 1/4-SL.
Hinged Concentric Louver No. 11-B.

Standard Quantity—20

Weight, Approx. 35 lbs.

Retail Price, Each

\$5.15

Code

ETUSIXFI

Ceiling Space Required:

Space Above Ceiling Line—6 1/4 inches.
Opening to be Cut in Ceiling, Circular—Diam., 7 inches.

Additional Equipment—for use with E-26-5.

For Plaster Ceiling—Use Plaster Ring No. 11-B.



PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA

PERMAFLECTOR NO. E-26 SERIES

ENCLOSED COMBINATIONS

(For Recessed Installations)

(Use 60 Watt A-19 Lamp)

Where mechanical protection of the recessed Permalector is necessary the addition of a spun aluminum housing accomplishes the object. We list and illustrate below our line of fully enclosed units for Permalector No. E-26.

COMBINATION NO. E-26-7

(With Hinged Ceiling Roundel)

Consists of:

- Permalector No. E-26.
- Porcelain Socket No. 1.
- Spun Aluminum Housing.
- Holder.
- 4" Octagonal Outlet Box, 1 5/8" deep.
- Hinged Ceiling Roundel No. 11-B.

Standard Quantity—1

Weight, Approx. 4 lbs.

Retail Price, Each\$8.10

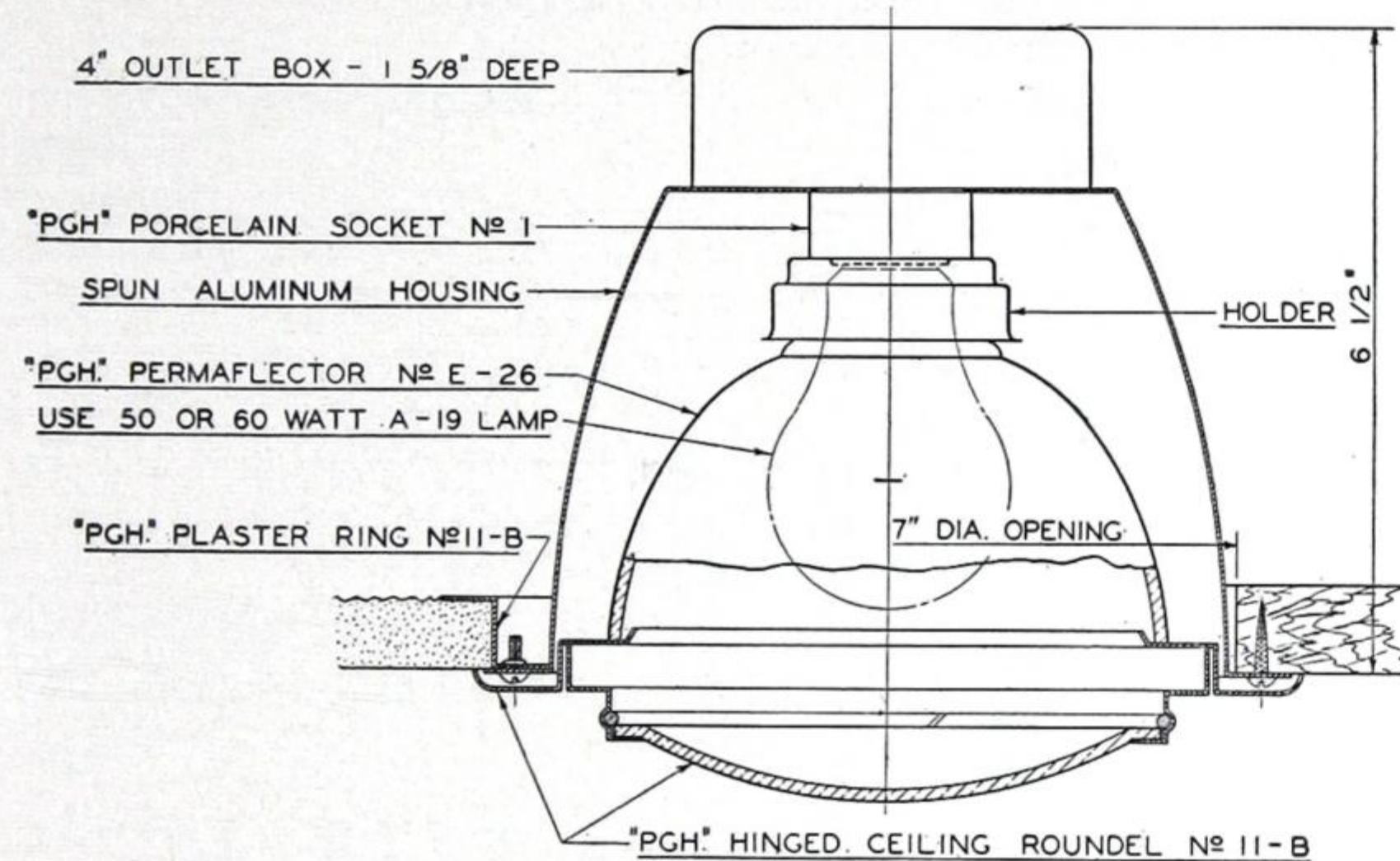
CodeETUSIXSET

Ceiling Space Required:

- Space Above Ceiling Line—6 1/2 inches.
- Opening to be Cut in Ceiling, Circular—Diam., 7 inches.

Additional Equipment—for use with No. E-26-7.

For Plaster Ceiling—Use Plaster Ring No. 11-B.



HALF SECTION THRU PLASTER CEILING
HALF SECTION THRU WOOD CEILING
No. E-26-7 Recessed in Ceiling

COMBINATION NO. E-26-8

(With Hinged Concentric Louver)

Consists of:

- Permalector No. E-26.
- Porcelain Socket No. 1.
- Spun Aluminum Housing.
- Holder.
- 4" Octagonal Outlet Box, 1 5/8" deep.
- Hinged Concentric Louver No. 11-B.

Standard Quantity—1

Weight, Approx. 4 lbs.

Retail Price, Each\$8.10

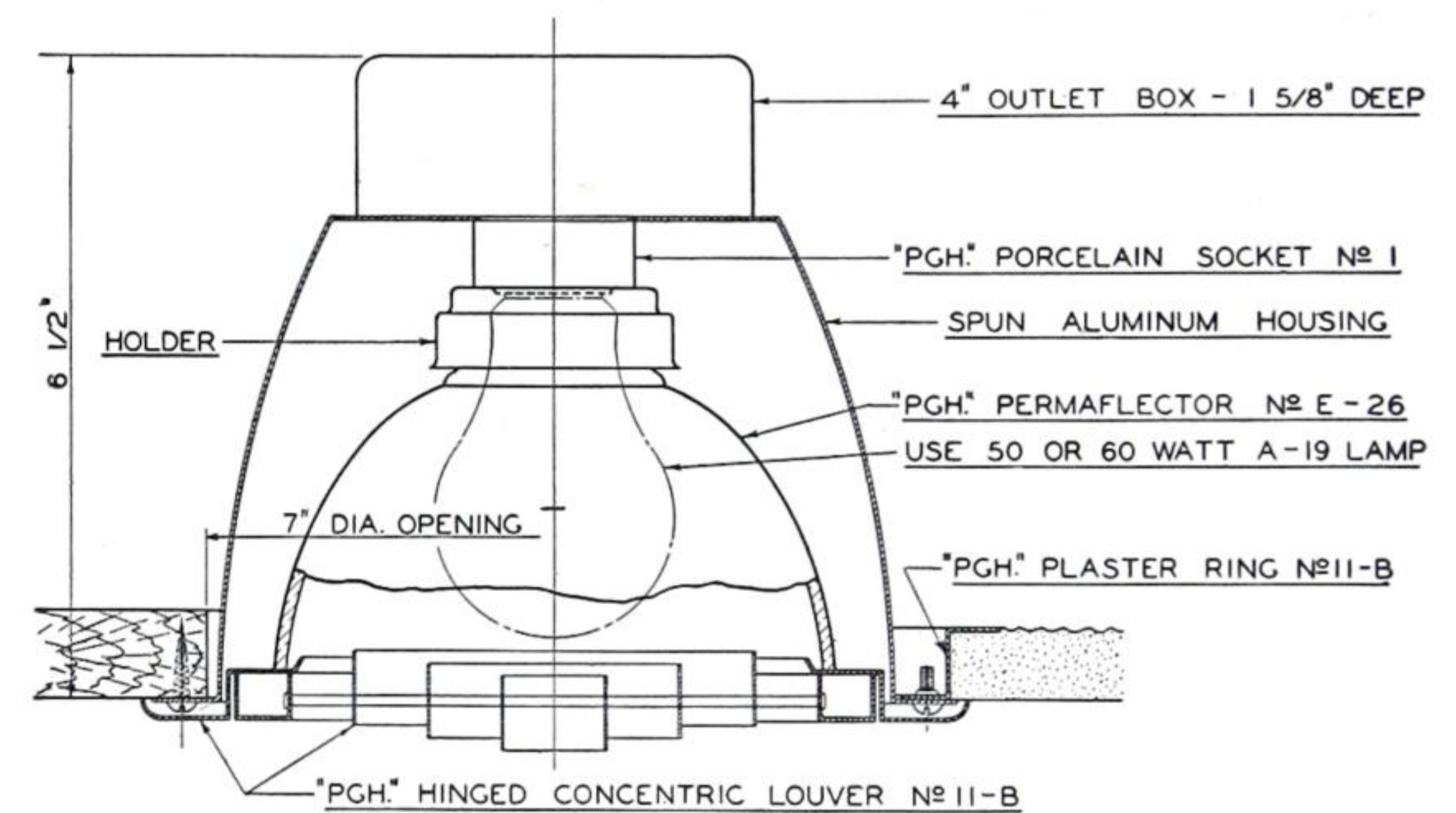
CodeETUSIXAT

Ceiling Space Required:

- Space Above Ceiling Line—6 1/2 inches.
- Opening to be Cut in Ceiling, Circular—Diam., 7 inches.

Additional Equipment—for use with No. E-26-8.

For Plaster Ceiling—Use Plaster Ring No. 11-B.



HALF SECTION THRU WOOD CEILING
HALF SECTION THRU PLASTER CEILING
No. E-26-8 Recessed in Ceiling

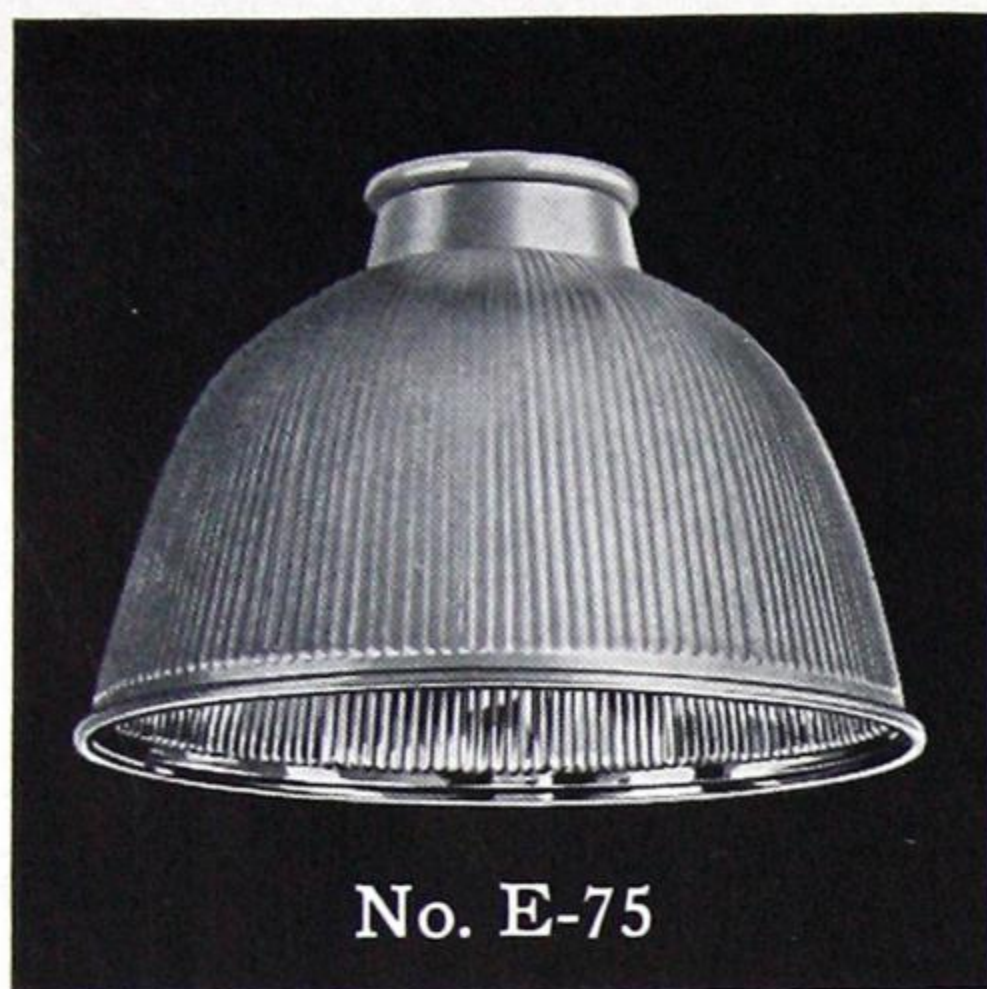


Recessed Permalectors No's C-101 Series and E-150
Type Installed
Rhea's Bakeries, Pittsburgh, Pa.

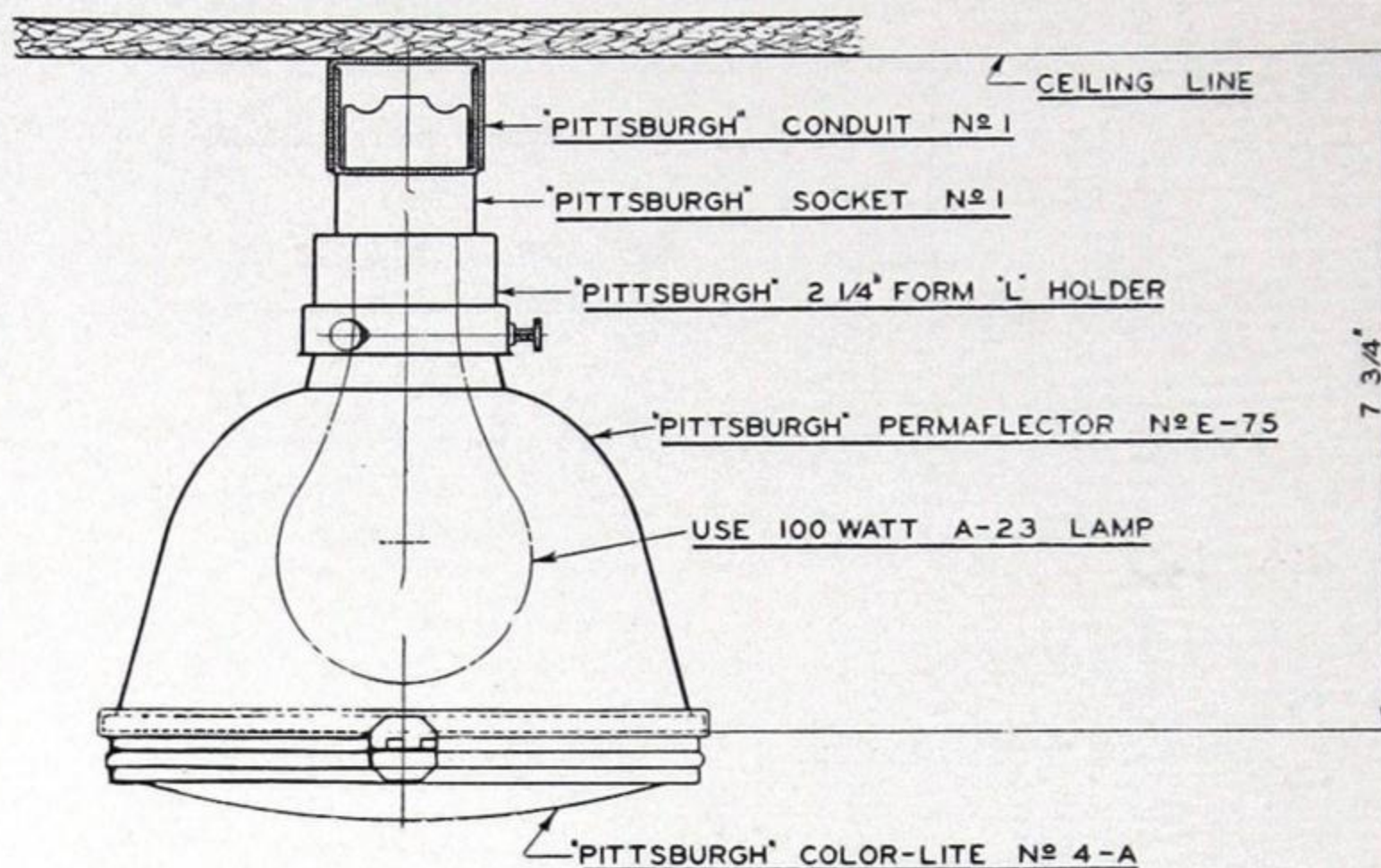
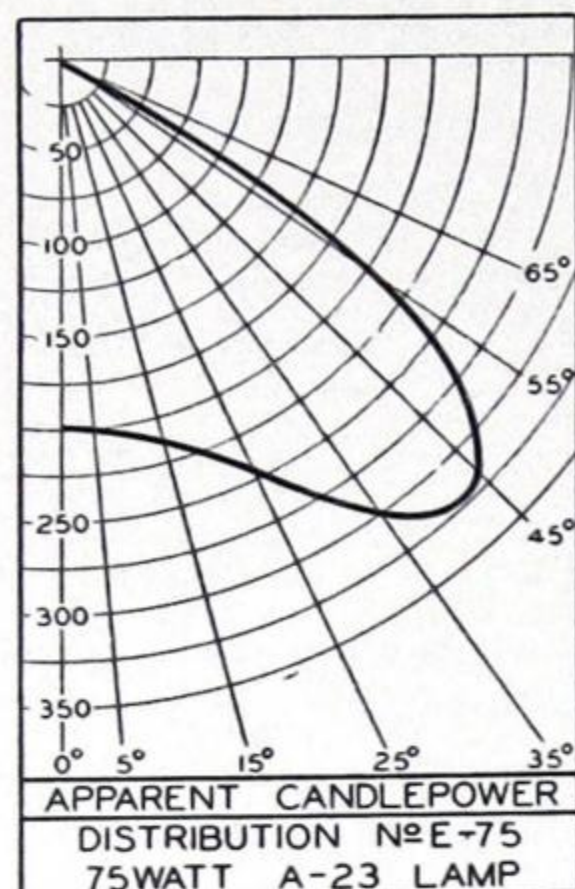


Recessed and Concealed Permalectors No's C-101 and C-201
Series Installed
Architect—Max A. Bernhardt, Philadelphia, Pa.
Electrical Contractor—Electro Construction Co., Philadelphia, Pa.
S. Kind & Sons, Jewelry, Philadelphia, Pa.

PERMAFLECTOR NO. E-75 SERIES



No. E-75



No. E-75 External Mounting with
Color-Lite No. 4-A

COMBINATION NO. E-75-2

(For Recessed Installations)
(Use 100 Watt A-23 Lamp)

Consists of:

Permaflex No. E-75.
Outlet Box Cover Assembly No. B-1-3 1/4-L.
Flush Mounting Ring No. 73.

Standard Quantity—8

Weight, Approx. 16 lbs.

Retail Price, Each.....\$3.08

CodeESEFITU

Ceiling Space Required:

Space Above Ceiling Line—7 3/4 inches.
Opening to be Cut in Ceiling, Circular—Diam., 7 inches.

Additional Equipment—for use with No. E-75-2.

For Plaster Ceiling—Use Plaster Ring No. 77.
For Colored Lighting—Use Color-Lite No. 41 or No. 41-DB.
For Ceiling Roundel (Not Hinged)—Use
Ceiling Roundel No. 41 with or without Wire Guard No. WG-4.
For Louvered Lighting—Use
Parallel Louver No. FM-77.
Concentric Louver No. FM-77-C.

COMBINATION NO. E-75-4

(Hinged Ceiling Roundel Installation)
(Use 100 Watt A-23 Lamp)

Consists of:

Permaflex No. E-75.
Outlet Box Cover Assembly No. B-1-3 1/4-L.
Hinged Ceiling Roundel No. 4-B.

Standard Quantity—8

Weight, Approx. 27 lbs.

Retail Price, Each.....\$5.70

CodeESEFIFO

Ceiling Space Required:

Space Above Ceiling Line—8 1/8 inches.
Opening to be Cut in Ceiling, Circular—Diam., 7 7/8 inches.

Additional Equipment—for use with No. E-75-4.

For Plaster Ceiling—Use Plaster Ring No. 4-B.
For Protection of Roundel—Use Wire Guard No. WG-4.

COMBINATION NO. E-75-5

(Hinged Concentric Louver Installation)
(Use 100 Watt A-23 Lamp)

Consists of:

Permaflex No. E-75.
Outlet Box Cover Assembly No. B-1-3 1/4-L.
Hinged Concentric Louver No. 4-B.

Standard Quantity—8

Weight, Approx. 22 lbs.

Retail Price, Each.....\$5.70

CodeESEFIFI

Ceiling Space Required—Same as for No. E-75-4.

Additional Equipment—for use with No. E-75-5.

For Plaster Ceiling—Use Plaster Ring No. 4-B.

PERMAFLECTOR NO. E-75

Standard Quantity—8

Weight, Approx. 9 lbs.

Retail Price, Each.....\$2.00

CodeESEFI

Additional Equipment—for use with No. E-75.

Holder:

For Grooved Porcelain Socket—Use
2 1/4" Form "SR" Holder for 60 Watt A-19 Lamp.
2 1/4" Form "LR" Holder for 100 Watt A-23 Lamp.
For Porcelain Sockets No. 1 or No. KO-8—Use
2 1/4" Form "S" Holder for 60 Watt A-19 Lamp.
2 1/4" Form "SL" Holder for 75 Watt A-21 Lamp.
2 1/4" Form "L" Holder for 100 Watt A-23 Lamp.

May Be Installed With: Outlet Box Cover Assembly No. B-1-3 1/4 or B-1-4 with 2 1/4" Form "S", "SL" or "L" Holder.

May Be Mounted On:

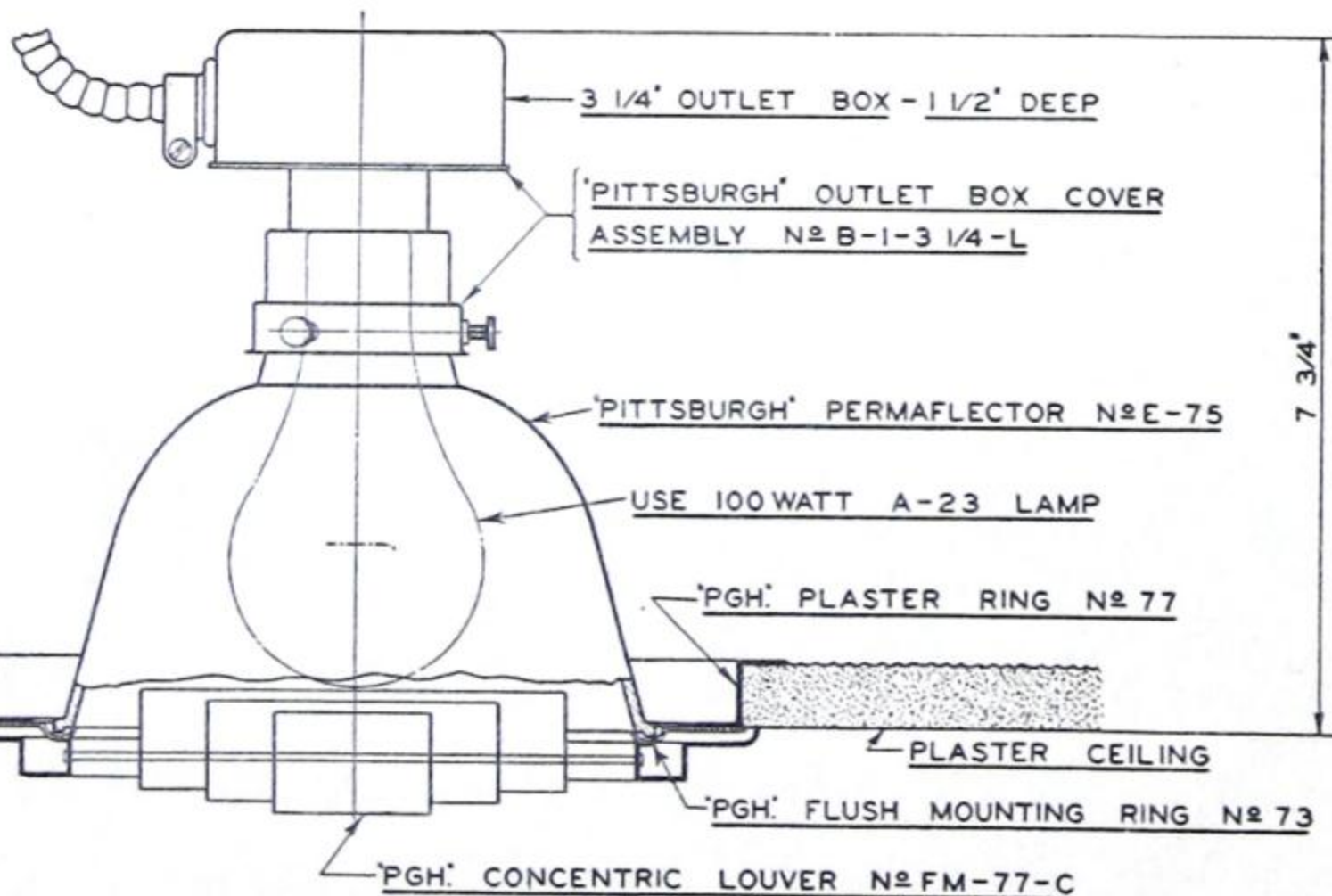
Conduit No. 1 or Knockout Strip No. KO-1 with 2 1/4" Form "S", "SL" or "L" Holder.
Conduit No. 12 with 2 1/4" Form "SR" or "LR" Holder.

For Colored Lighting: Use

Color-Lite No. 4-A or No. 4-ADB for external mounting.

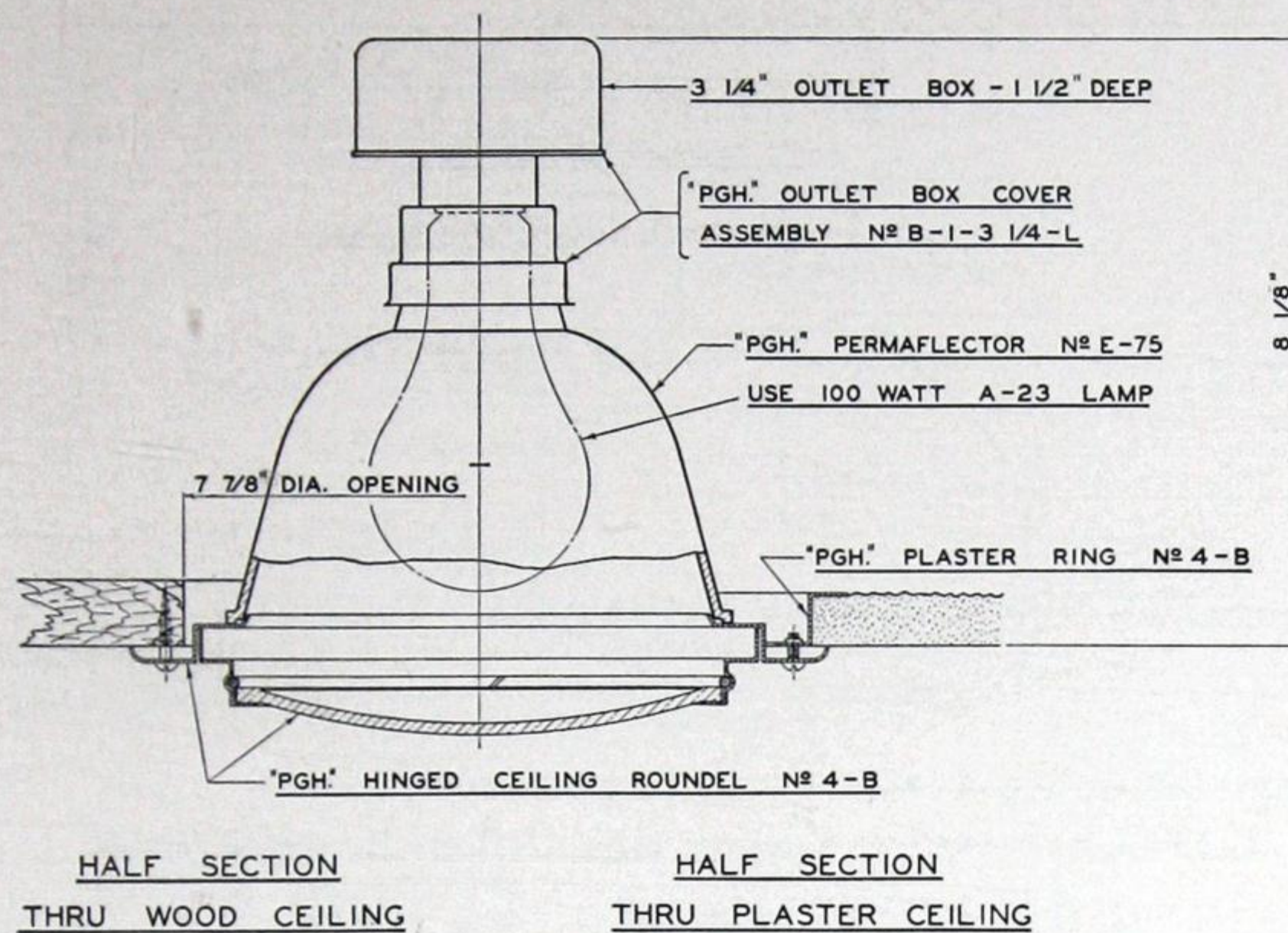
For Louvered Lighting: Use

Parallel Louver No. EM-77 for external mounting.
Concentric Louver No. EM-77-C for external mounting.

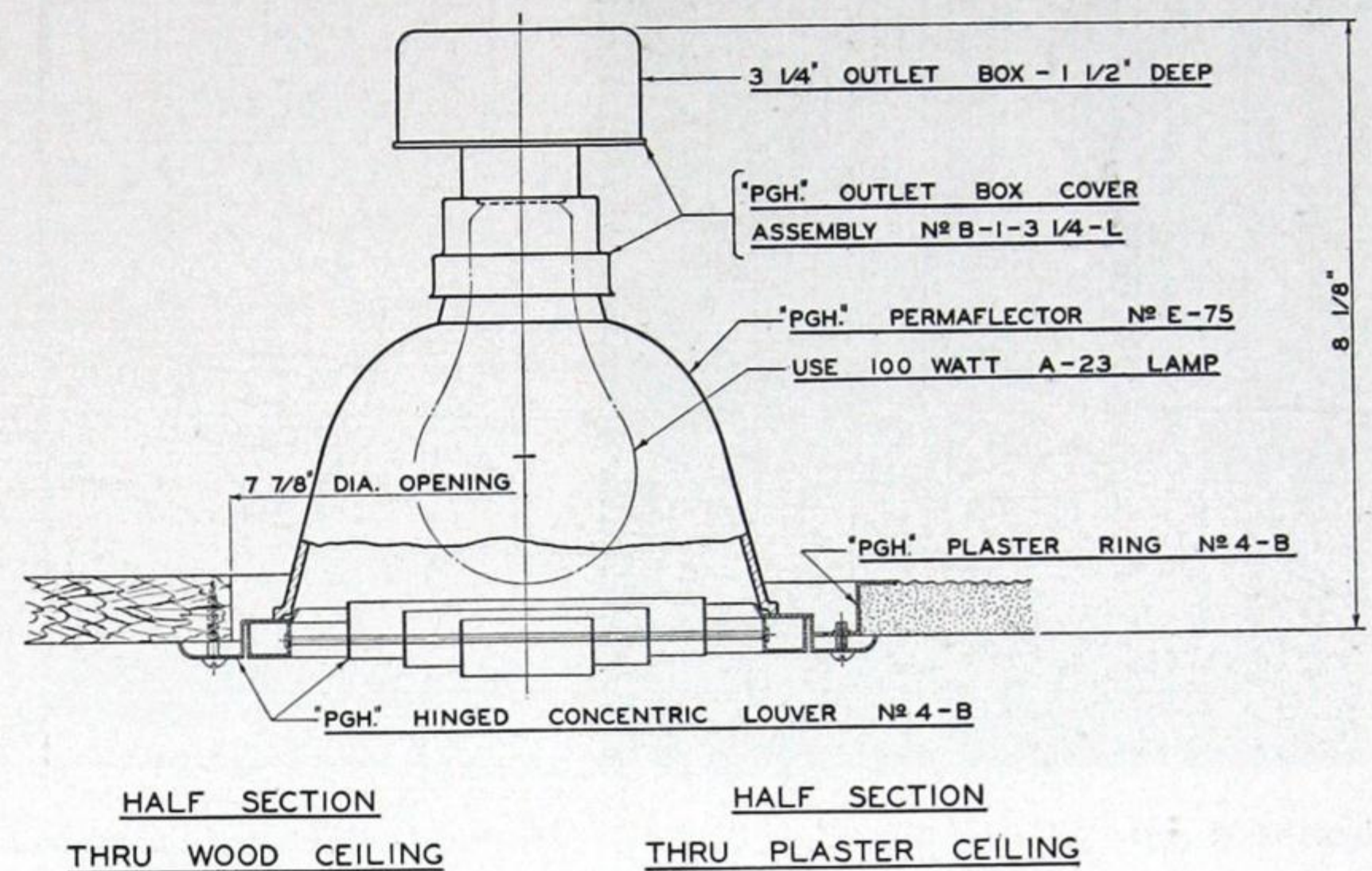


E-75-2 Recessed in Plaster Ceiling and Louvered.

PERMAFLECTOR NO. E-75 SERIES



No. E-75-4 Recessed in Ceiling



No. E-75-5 Recessed in Ceiling

ENCLOSED COMBINATIONS

(For Recessed Installations)

(Use 100 Watt A-23 Lamp)

Where mechanical protection of the recessed Permaфлектор is necessary the addition of a spun aluminum housing ac-

complishes the object. We list and illustrate below our line of fully enclosed units for Permaфлектор No. E-75.

COMBINATION NO. E-75-7

(With Hinged Ceiling Roundel)

Consists of:

- Permaфлектор No. E-75.
- Spun Aluminum Housing.
- Porcelain Socket No. 1.
- Holder.
- 4" Octagonal Outlet Box, 1 5/8 inches deep.
- Hinged Ceiling Roundel No. 4-B.

Standard Quantity—1

Weight, Approx. 6 lbs.

Retail Price, Each.....\$9.75

CodeESEFISET

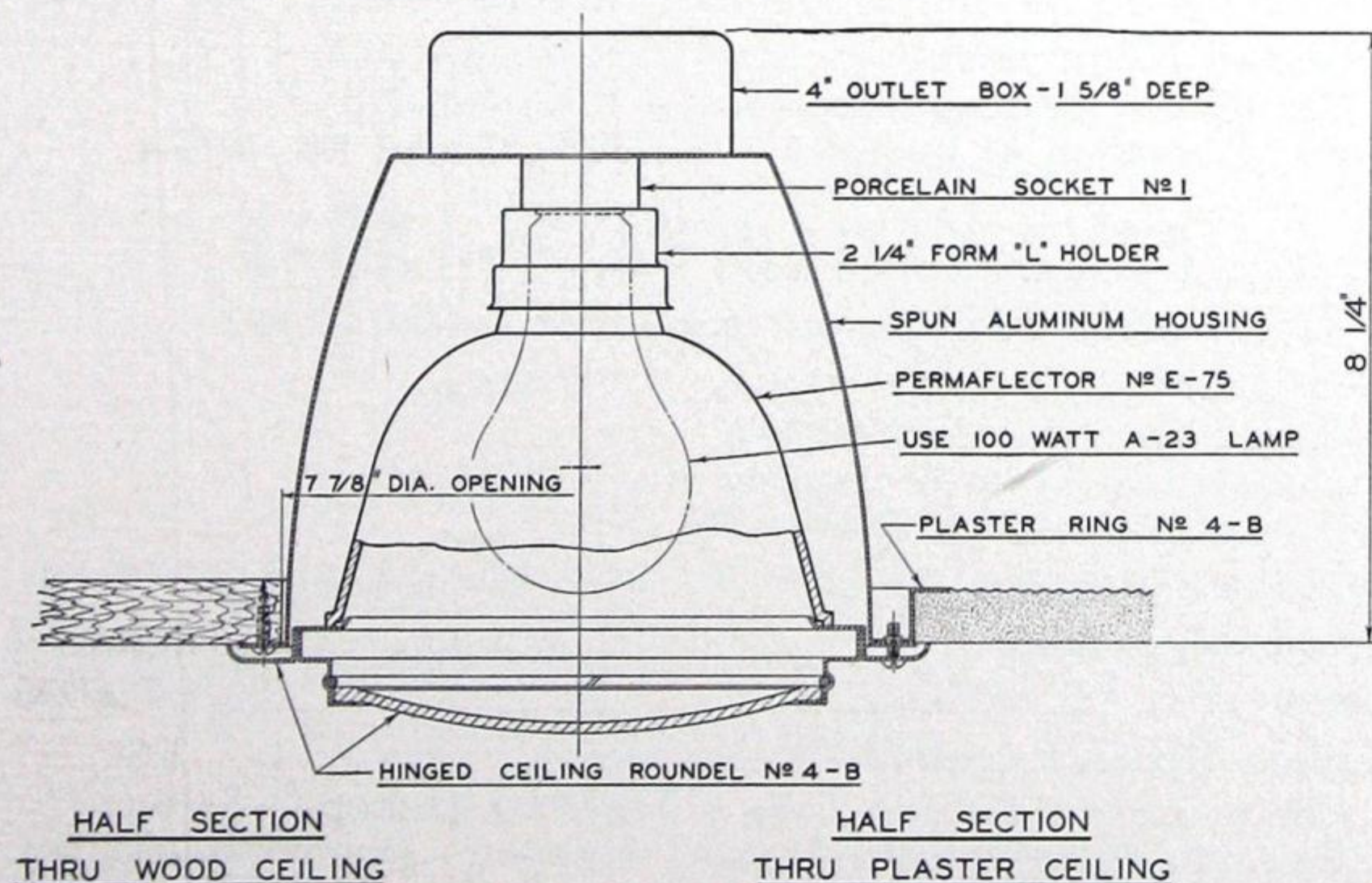
Ceiling Space Required:

- Space Above Ceiling Line—8 1/4 inches.
- Opening to be Cut in Ceiling, Circular—Diam., 7 7/8 inches.

Additional Equipment—for use with No. E-75-7.

For Plaster Ceiling—Use Plaster Ring No. 4-B.

For Protection of Roundel—Use Wire Guard No. WG-4.



No. E-75-7 Recessed in Ceiling

COMBINATION NO. E-75-8

(With Hinged Concentric Louver)

Consists of:

- Permaфлектор No. E-75.
- Spun Aluminum Housing.
- Porcelain Socket No. 1.
- Holder.
- 4" Octagonal Outlet Box, 1 5/8 inches deep.
- Hinged Concentric Louver No. 4-B.

Standard Quantity—1

Weight, Approx. 5 lbs.

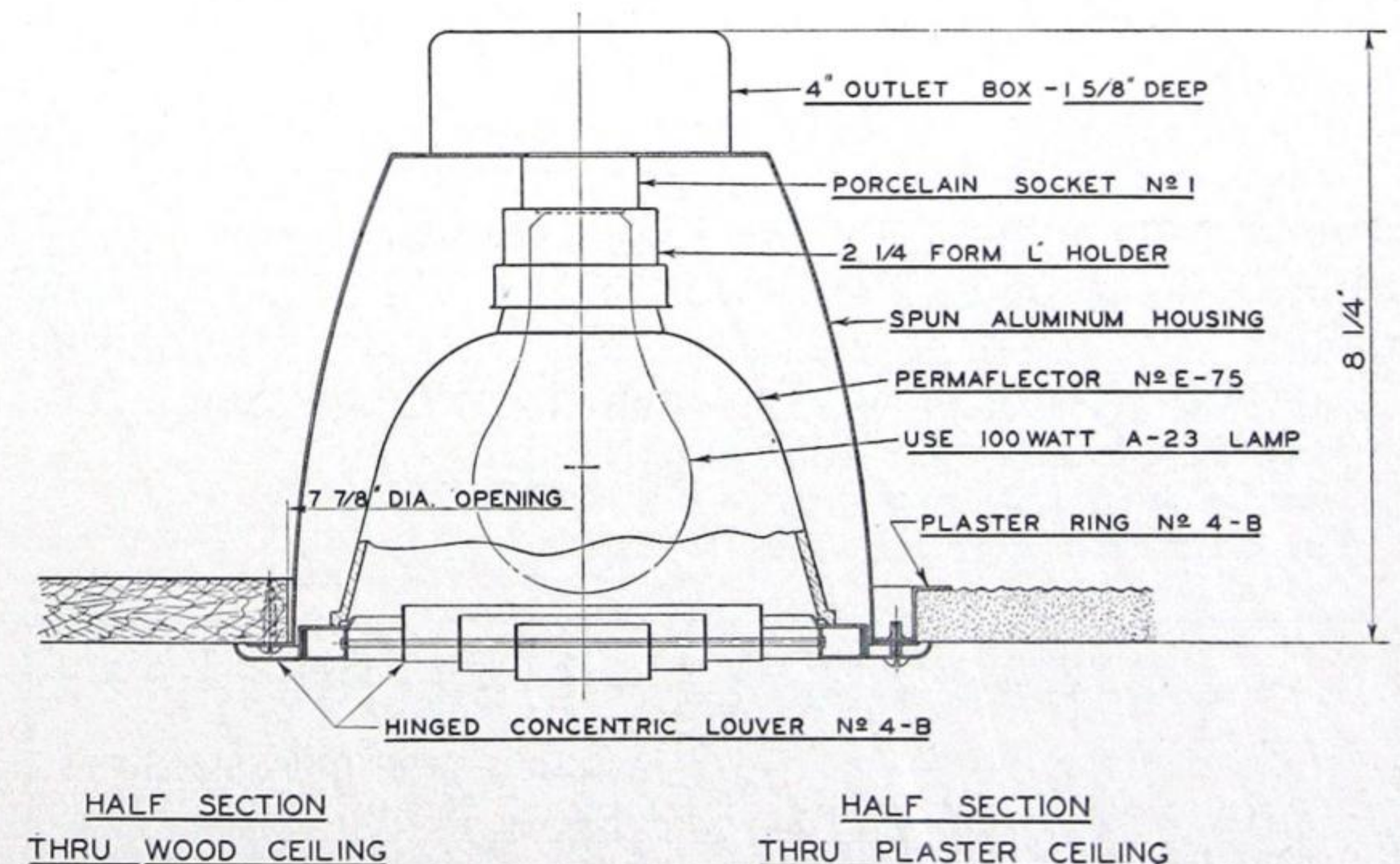
Retail Price, Each.....\$9.75

CodeESEFIAT

Ceiling Space Required—Same as for No. E-75-7.

Additional Equipment—for use with No. E-75-8.

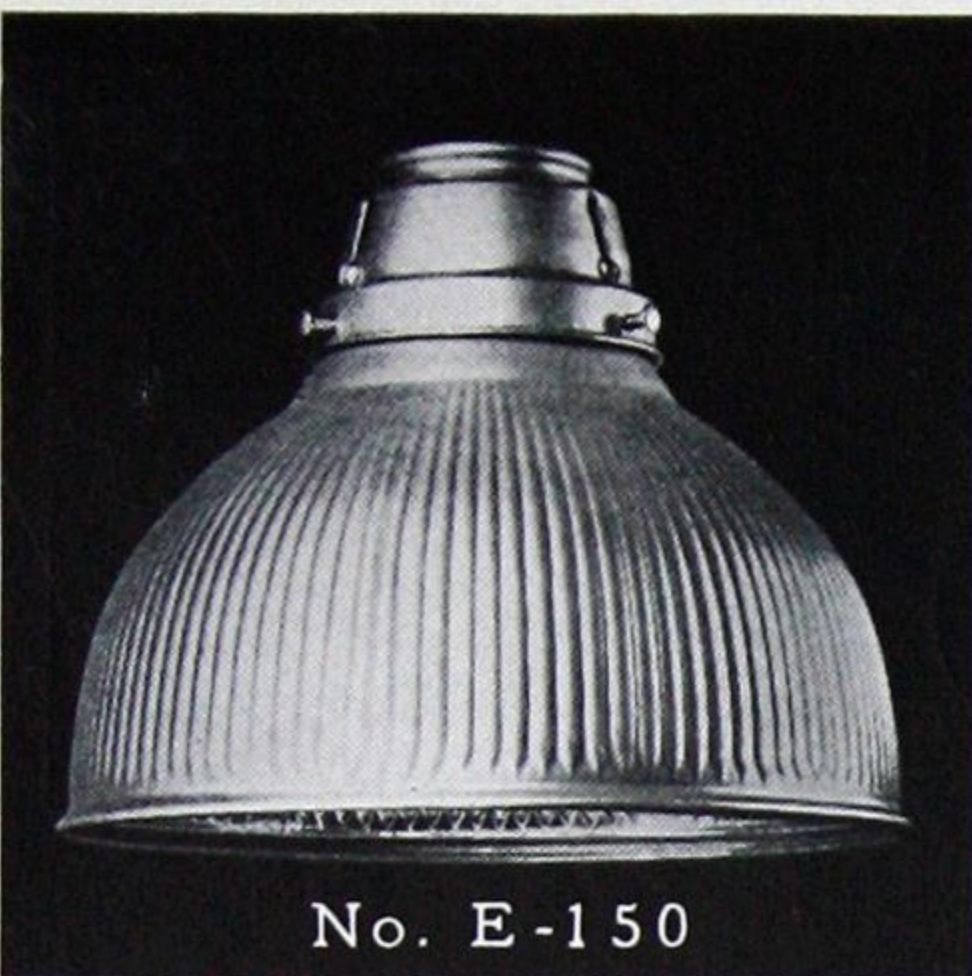
For Plaster Ceiling—Use Plaster Ring No. 4-B.



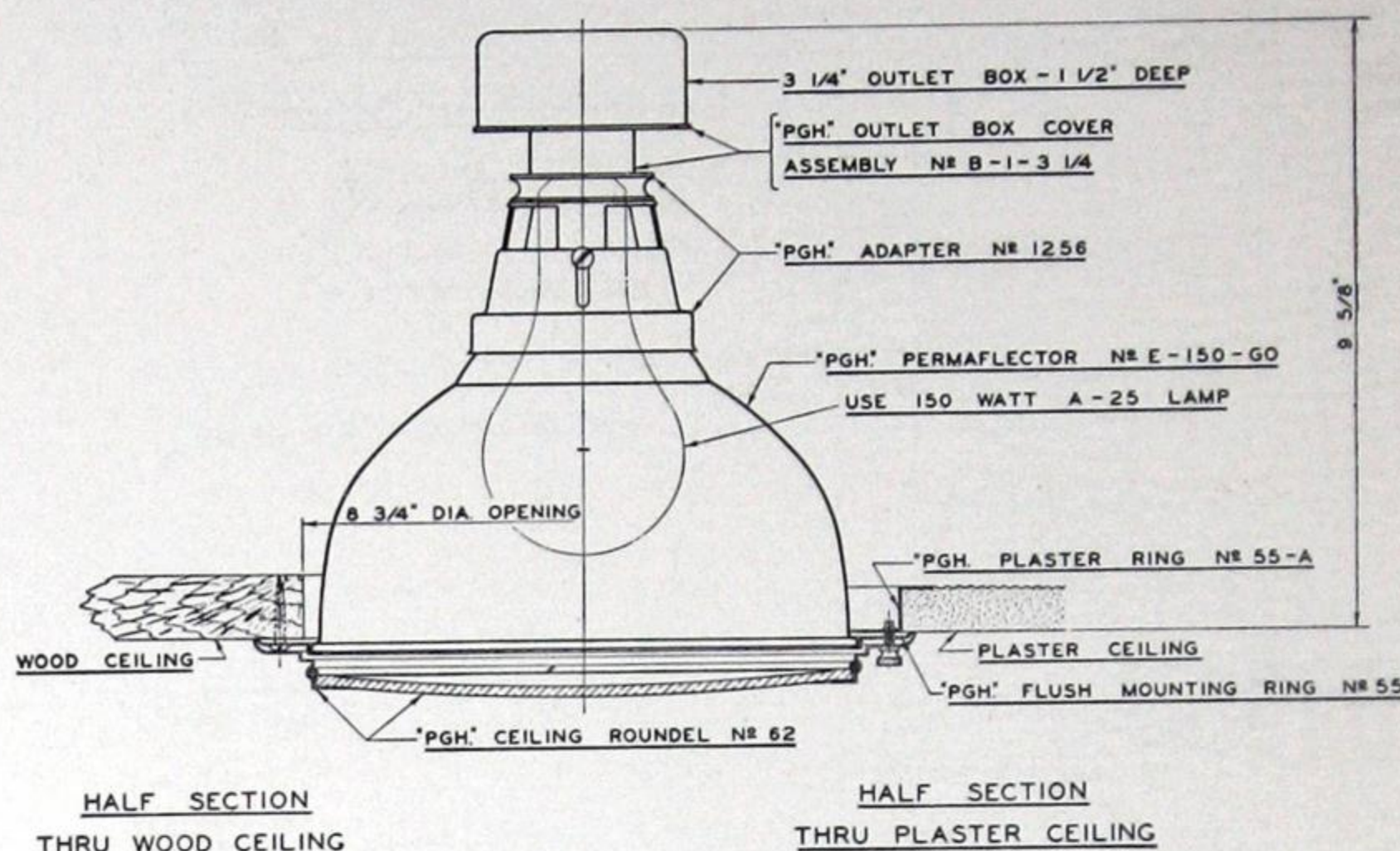
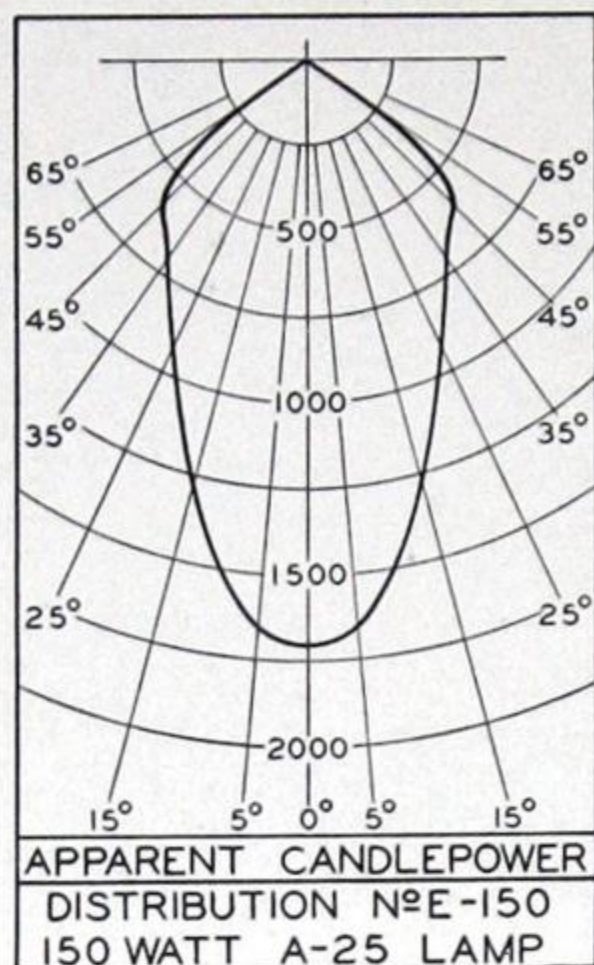
No. E-75-8 Recessed in Ceiling



PERMAFLECTOR NO. E-150 SERIES



No. E-150



E-150-2 Recessed in Ceiling with Ceiling Roundel No. 62

COMBINATION NO. E-150-2

(For Recessed Installation)

Consists of:

- Permaflector No. E-150.
- Outlet Box Cover Assembly No. B-1-3 1/4.
- Flush Mounting Ring No. 55.

Standard Quantity—7

Weight, Approx. 20 lbs.

Retail Price, Each

\$4.37

Code

ONFITU

Ceiling Space Required:

- Space Above Ceiling Line—9 5/8 inches (Adapter Extended).
- Opening to be Cut in Ceiling, Circular—Diam., 8 3/4 inches.

Additional Equipment—for use with No. E-150-2.

- For Plaster Ceiling**—Use Plaster Ring No. 55-A.
- For Colored Lighting**—Use Color-Lite No. 61 or No. 61-DB.
- For Ceiling Roundel (Not Hinged)**—Use Ceiling Roundel No. 62 with or without Wire Guard No. WG-1.

For Louvered Lighting—Use

- Parallel Louver No. FM-55.
- Concentric Louver No. FM-55-C.
- Egg Crate Louver No. FEC-100.

COMBINATION NO. E-150-4

(Hinged Ceiling Roundel Installation)

Consists of:

- Permaflector No. E-150.
- Outlet Box Cover Assembly No. B-1-3 1/4.
- Hinged Ceiling Roundel No. 1-B.

Standard Quantity—7

Weight, Approx. 33 lbs.

Retail Price, Each

\$7.70

Code

ONFIFO

Ceiling Space Required:

- Space Above Ceiling Line—10 inches (Adapter Extended).
- Opening to be Cut in Ceiling, Circular—Diam., 9 3/4 inches.

Additional Equipment—for use with No. E-150-4.

- For Plaster Ceiling**—Use Plaster Ring No. 1-B.
- For Protection of Roundel**—Use Wire Guard No. WG-1.

COMBINATION NO. E-150-5

(Hinged Concentric Louver Installation)

Consists of:

- Permaflector No. E-150.
- Outlet Box Cover Assembly No. B-1-3 1/4.
- Hinged Concentric Louver No. 1-B.

Standard Quantity—7

Weight, Approx. 28 lbs.

Retail Price, Each

\$7.70

Code

ONFIFI

Ceiling Space Required:

- Space Above Ceiling Line—10 inches (Adapter Extended).
- Opening to be Cut in Ceiling, Circular—Diam., 9 3/4 inches.

Additional Equipment—for use with No. E-150-5.

- For Plaster Ceiling**—Use Plaster Ring No. 1-B.

PERMAFLECTOR NO. E-150

Consists of:

- Permaflector No. E-150-GO and Adapter No. 1256.

Standard Quantity—7

Weight, Approx. 15 lbs.

Retail Price, Each

\$3.50

Code ONFIO

Additional Equipment—for use with No. E-150.

May Be Installed With:

- Outlet Box Cover Assembly No. B-1-3 1/4 or B-1-4.

May Be Mounted On:

- Conduit No. 1 or Knockout Strip No. KO-1.

For Colored Lighting—Use

- Color-Lite No. 6 or No. 6-DB for external mounting.

For Louvered Lighting: Use

- Parallel Louver No. EM-55 for external mounting.
- Concentric Louver No. EM-55-C for external mounting.

PERMAFLECTOR NO. E-150-R

Consists of:

- Permaflector No. E-150-GO and Adapter No. 1256-R for use where grooved porcelain sockets are installed.

Standard Quantity—7

Weight, Approx. 15 lbs.

Retail Price, Each

\$3.50

Code ENFIR

Additional Equipment—for use with No. E-150-R.

May Be Mounted On—Conduit No. 12.

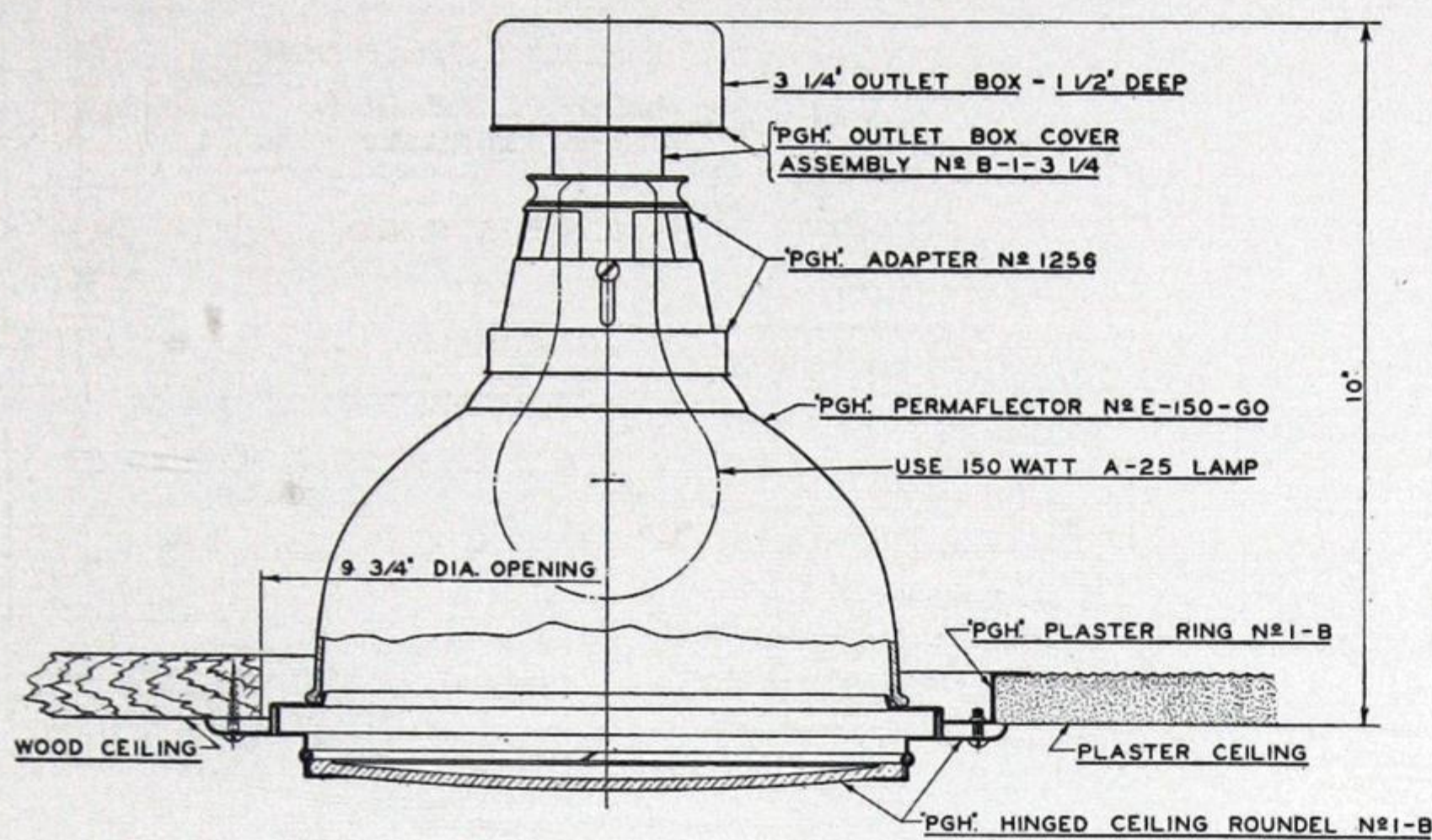
For Colored Lighting—Same as for No. E-150.

For Louvered Lighting—Same as for No. E-150.

STORE DISPLAY LIGHTING

To a considerable extent merchants are building displays around the bases of columns. Some seven feet above the floor a canopy of circular or polygonal shape containing the lighting equipment set flush is employed.

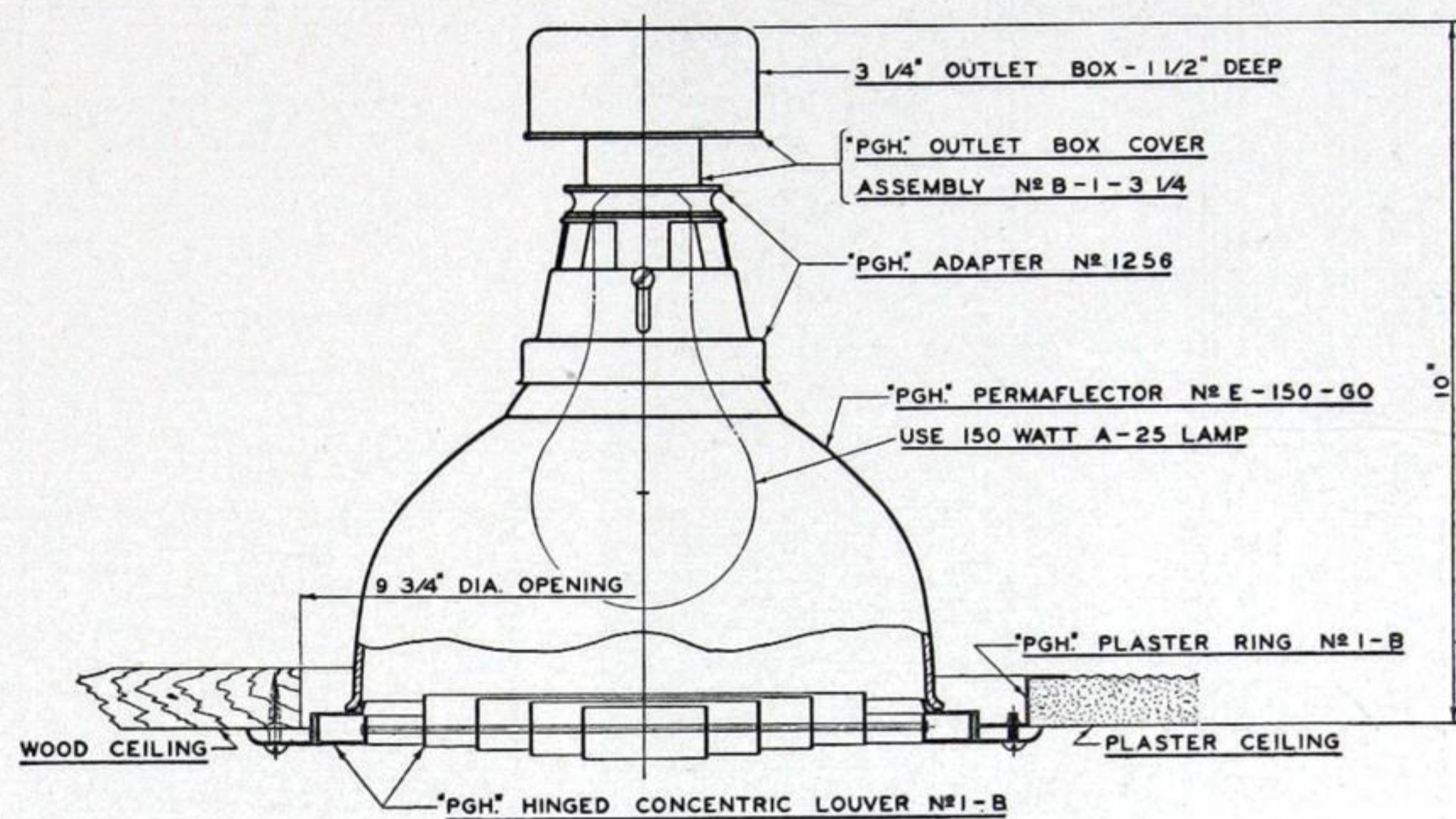
PERMAFLECTOR NO. E-150 SERIES



HALF SECTION
THRU WOOD CEILING

HALF SECTION
THRU PLASTER CEILING

No. E-150-4 Recessed in Ceiling



HALF SECTION
THRU WOOD CEILING

HALF SECTION
THRU PLASTER CEILING

No. E-150-5 Recessed in Ceiling

ENCLOSED COMBINATIONS

(For Recessed Installations)

(Use 150 Watt A-25 Lamp)

Where mechanical protection of the recessed Permaфлектор is necessary the addition of a spun aluminum housing accom-

plishes the object. We list and illustrate below our line of fully enclosed units for Permaфлектор No. E-150.

COMBINATION NO. E-150-7

(With Hinged Ceiling Roundel)

Consists of:

- Permaфлектор No. E-150.
- Spun Aluminum Housing.
- Porcelain Socket No. 1.
- 4" Octagonal Outlet Box, 1 5/8 inches deep.
- Hinged Ceiling Roundel No. 1-B.

Standard Quantity—1

Weight, Approx 11 lbs.

Retail Price, Each\$12.00

CodeONFISET

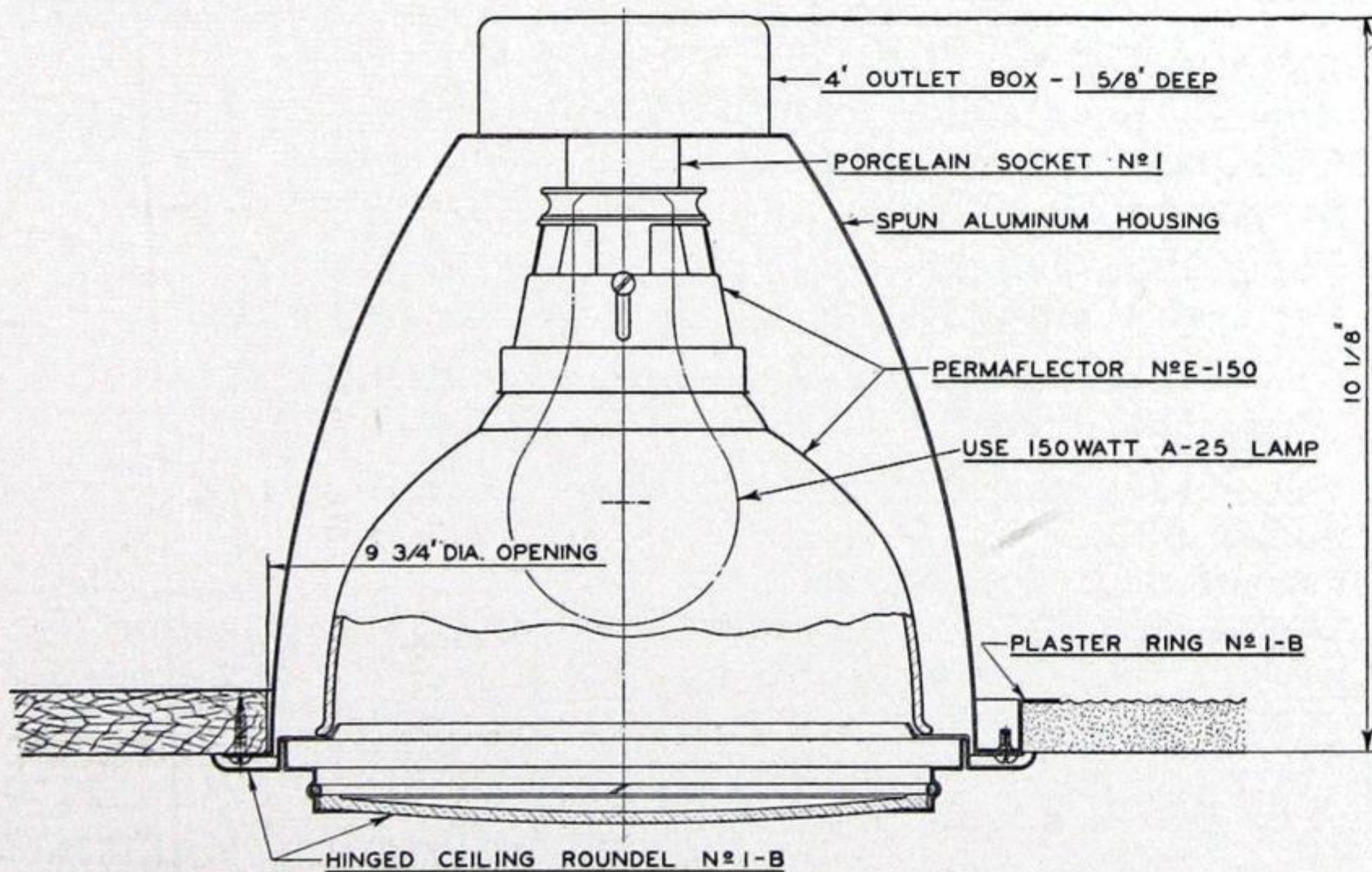
Ceiling Space Required:

- Space Above Ceiling Line—10 1/8 inches.
- Opening to be Cut in Ceiling, Circular—Diam., 9 3/4 inches.

Additional Equipment—for use with No. E-150-7.

For Plaster Ceiling—Use Plaster Ring No. 1-B.

For Protection of Roundel—Use Wire Guard No. WG-1.



HALF SECTION
THRU WOOD CEILING

HALF SECTION
THRU PLASTER CEILING

No. E-150-7 Recessed in Ceiling

COMBINATION NO. E-150-8

(With Hinged Concentric Louver)

Consists of:

- Permaфлектор No. E-150.
- Spun Aluminum Housing.
- Porcelain Socket No. 1.
- 4" Octagonal Outlet Box, 1 5/8 inches deep.
- Hinged Concentric Louver No. 1-B.

Standard Quantity—1

Weight, Approx. 10 lbs.

Retail Price, Each\$12.00

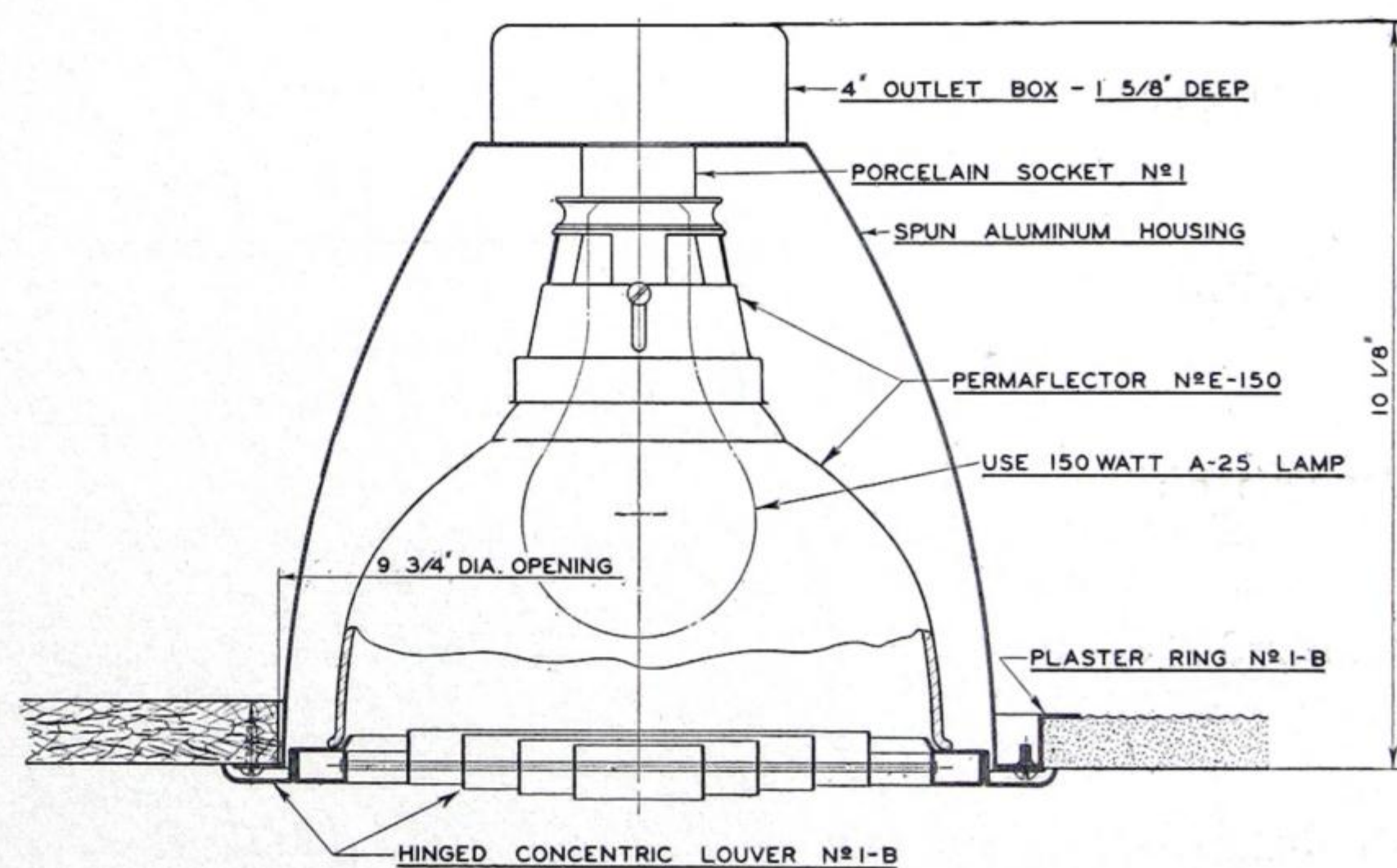
CodeONFIAT

Ceiling Space Required:

- Space Above Ceiling Line—10 1/8 inches.
- Opening to be Cut in Ceiling, Circular—Diam., 9 3/4 inches.

Additional Equipment—for use with No. E-150-8.

For Plaster Ceiling—Use Plaster Ring No. 1-B.



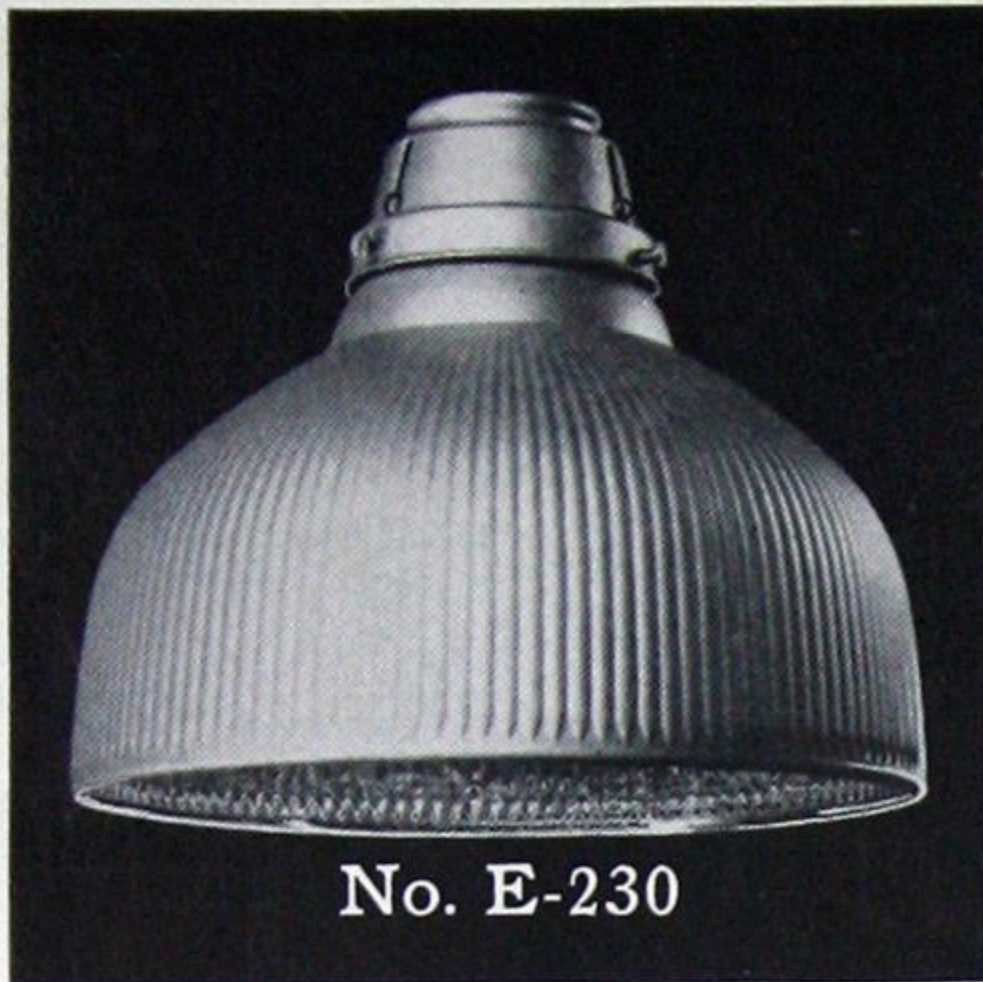
HALF SECTION
THRU WOOD CEILING

HALF SECTION
THRU PLASTER CEILING

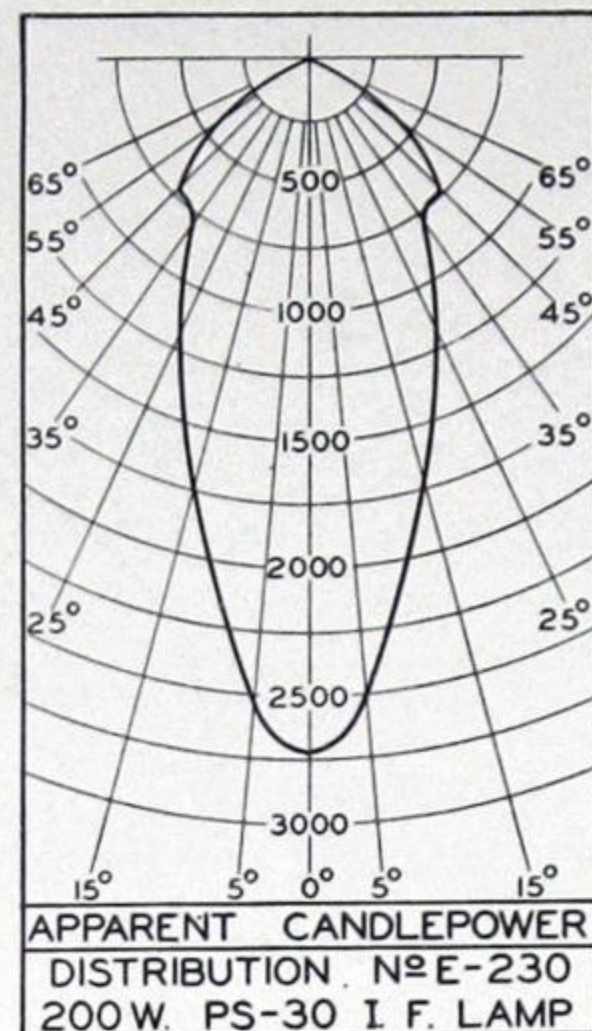
No. E-150-8 Recessed in Ceiling



PERMAFLECTOR NO. E-230 SERIES



No. E-230



Application—A broadly distributing reflector with a desirable concentration at center. Excellent for recessed down lighting of stores and similar interiors, hand ball courts, gymnasiums, badminton courts, below mezzanine floors and other locations with low head room, recreation rooms in residences, entrance ways and marquees. Also good for exposed service in factories and warehouses.

Spacings on Centers:

For uniform illumination, should not exceed height of bottom of reflector above work plane.

Minimum Spacings: for

Mounting on Conduit No. 1 or No. 12—10½ inches on centers.
Mounting on Knockout Strip No. KO-1—12 inches on centers.

Dimensions:

Height with Adapter No. 1256 Extended—8⅞ inches.
Height with Adapter No. 1256 Compressed—7¾ inches.
Height Permaflector No. E-230-GO (Glass only) 6¼ inches.
Bottom Opening Circular—Diameter, 9½ inches.

Lamp Size:

300 watt PS-35, Medium Base, Adapter Extended.
200 watt PS-30, Adapter Extended.
150 watt A-25, Adapter Compressed.

PERMAFLECTOR NO. E-230

Consists of:

Permaflector No. E-230-GO and Adapter No. 1256.

Standard Quantity—5

Weight, Approx. 14 lbs.

Retail Price, Each.....\$4.00

CodeETOR

Additional Equipment—for use with No. E-230.

May Be Installed With:

Outlet Box Cover Assembly No. B-1-3¼ or B-1-4.

May Be Mounted On:

Conduit No. 1 or Knockout Strip No. KO-1.

For Colored Lighting: Use

Color-Lite No. 2 or No. 2-DB for external mounting.

For Louvered Lighting: Use

Parallel Louver No. EM-54 for external mounting.

Concentric Louver No. EM-54-C for external mounting.

PERMAFLECTOR NO. E-230-R

Consists of:

Permaflector No. E-230-GO and Adapter No. 1256-R for use where grooved porcelain sockets are installed.

Standard Quantity—5

Weight, Approx. 14 lbs.

Retail Price, Each.....\$4.00

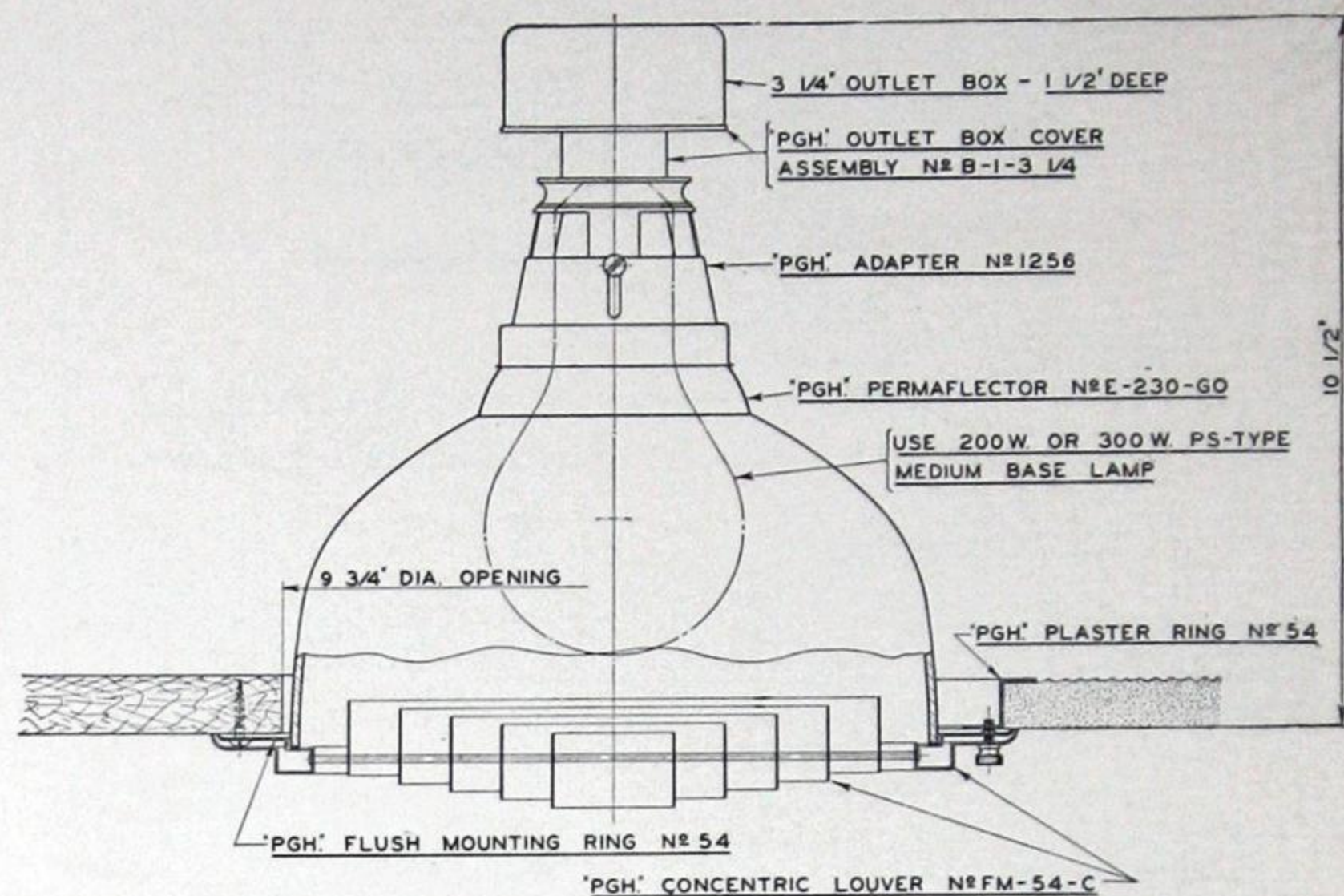
CodeETORER

Additional Equipment—for use with No. E-230-R.

May Be Mounted On—Conduit No. 12.

For Colored Lighting—Same as for No. E-230.

For Louvered Lighting—Same as for No. E-230.



HALF SECTION
THRU WOOD CEILING

HALF SECTION
THRU PLASTER CEILING

No. E-230-2, Recessed in Ceiling and Louvered

COMBINATION NO. E-230-2

(For Recessed Installation)

Consists of:

Permaflector No. E-230.

Outlet Box Cover Assembly No. B-1-3¼.

Flush Mounting Ring No. 54.

Standard Quantity—5

Weight, Approx. 17 lbs.

Retail Price, Each.....\$4.95

CodeETORT

Ceiling Space Required:

Space Above Ceiling Line—10½ inches (Adapter Extended)

Opening to be Cut in Ceiling, Circular—Diam., 9¾ inches.

Additional Equipment—for use with No. E-230-2.

For Plaster Ceiling—Use Plaster Ring No. 54.

For Colored Lighting—Use Color-Lite No. 21 or No. 21-DB.

For Ceiling Roundel (Not Hinged)—Use

Ceiling Roundel No. 21 with or without Wire Guard No. WG-6.

For Louvered Lighting—Use

Parallel Louver No. FM-54.

Concentric Louver No. FM-54-C.

Egg Crate Louver No. FEC-200.

COMBINATION NO. E-230-4

(Hinged Ceiling Roundel Installation)

Consists of:

Permaflector No. E-230.

Outlet Box Cover Assembly No. B-1-3¼.

Hinged Ceiling Roundel No. 6-B.

Standard Quantity—5

Weight, Approx. 28 lbs.

Retail Price, Each.....\$9.05

CodeETORFO

Ceiling Space Required:

Space Above Ceiling Line—11 inches (Adapter Extended).

Opening to be Cut in Ceiling, Circular—Diam., 10¾ inches.

Additional Equipment—for use with No. E-230-4.

For Plaster Ceiling—Use Plaster Ring No. 6-B.

For Protection of Roundel—Use Wire Guard No. WG-6.

COMBINATION NO. E-230-5

(Hinged Concentric Louver Installation)

Consists of:

Permaflector No. E-230.

Outlet Box Cover Assembly No. B-1-3¼.

Hinged Concentric Louver No. 6-B.

Standard Quantity—5

Weight, Approx. 25 lbs.

Retail Price, Each.....\$8.70

CodeETORFI

Ceiling Space Required—Same as for No. E-230-4.

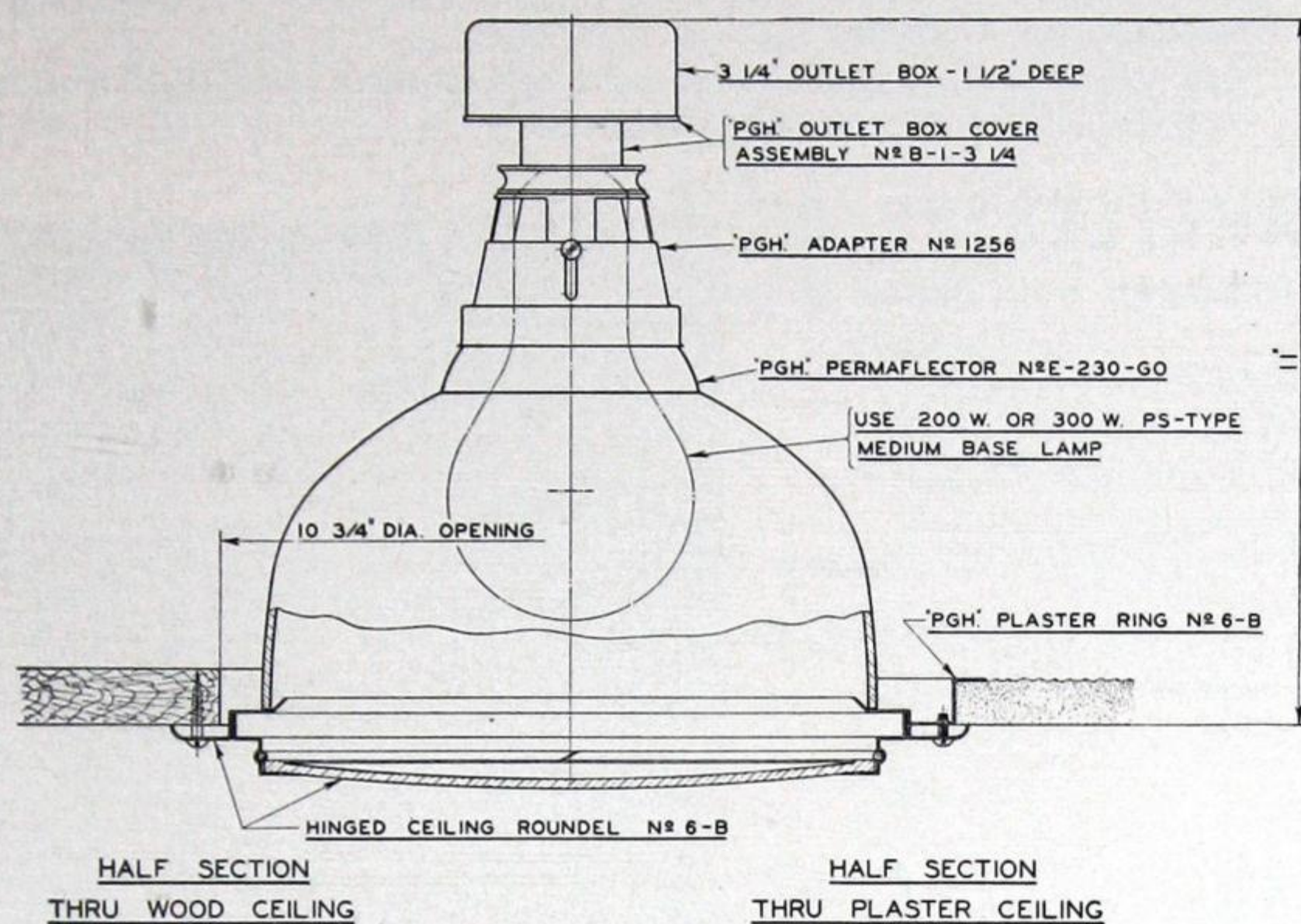
Additional Equipment—for use with No. E-230-5.

For Plaster Ceiling—Use Plaster Ring No. 6-B.

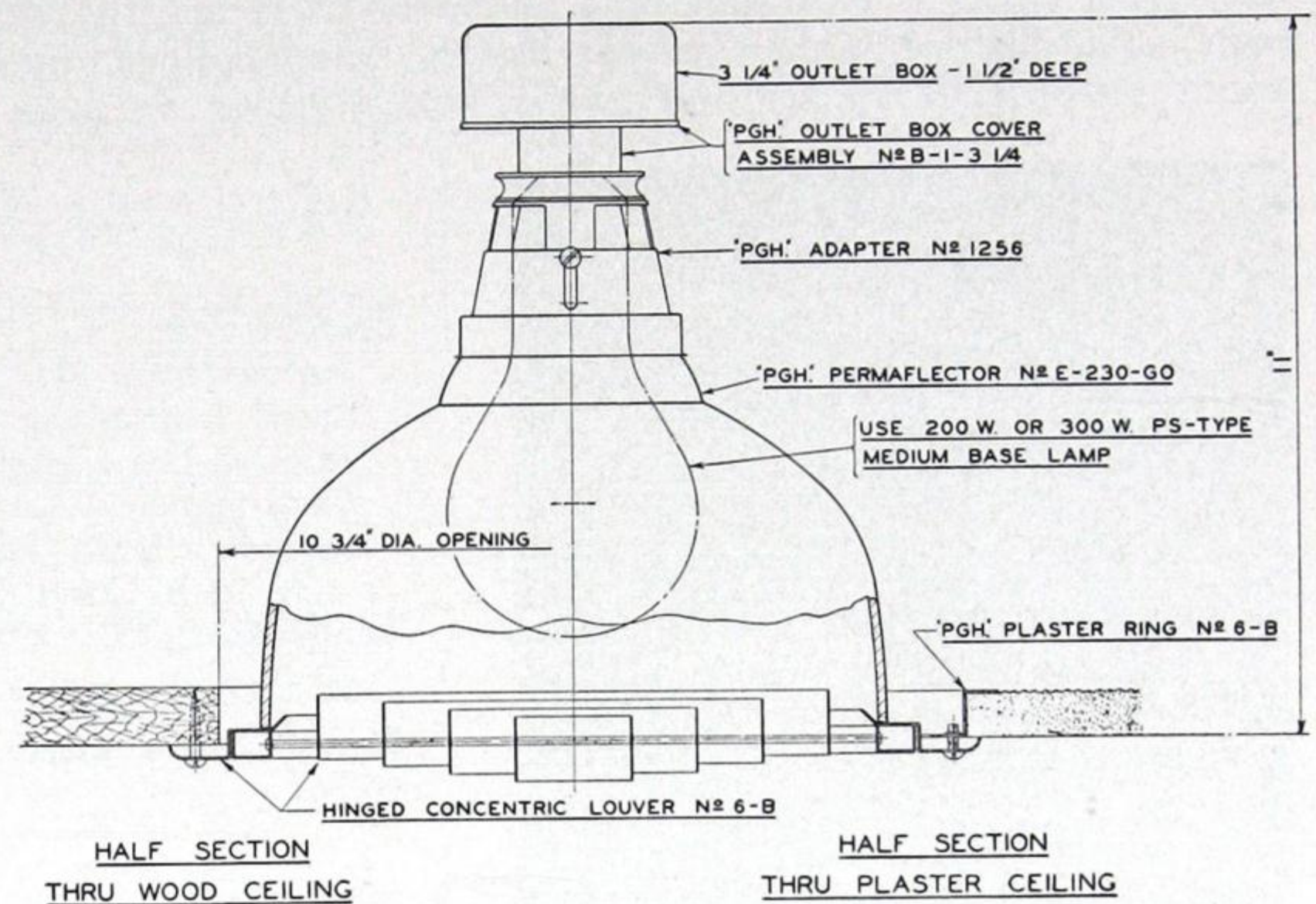


PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA

PERMAFLECTOR NO. E-230 SERIES



No. E-230-4 Recessed in Ceiling



No. E-230-5 Recessed in Ceiling

ENCLOSED COMBINATIONS

(For Recessed Installations)

(Using 200 Watt PS-30 or 300 Watt PS-35 Medium Base Lamp)

Where mechanical protection of the recessed Permaфлектор is necessary, the addition of a spun aluminum housing accomplishes the object. We list and illustrate below our line of fully enclosed units for Permaфлектор No. E-230.

COMBINATION NO. E-230-7

(With Hinged Ceiling Roundel)

Consists of:

- Permaфлектор No. E-230.
- Spun Aluminum Housing.
- Porcelain Socket No. 1.
- 4" Octagonal Outlet Box, 1 5/8 inches deep.
- Hinged Ceiling Roundel No. 6-B.

Standard Quantity—1

Weight, Approx. 12 lbs.

Retail Price, Each\$15.60

CodeETORSET

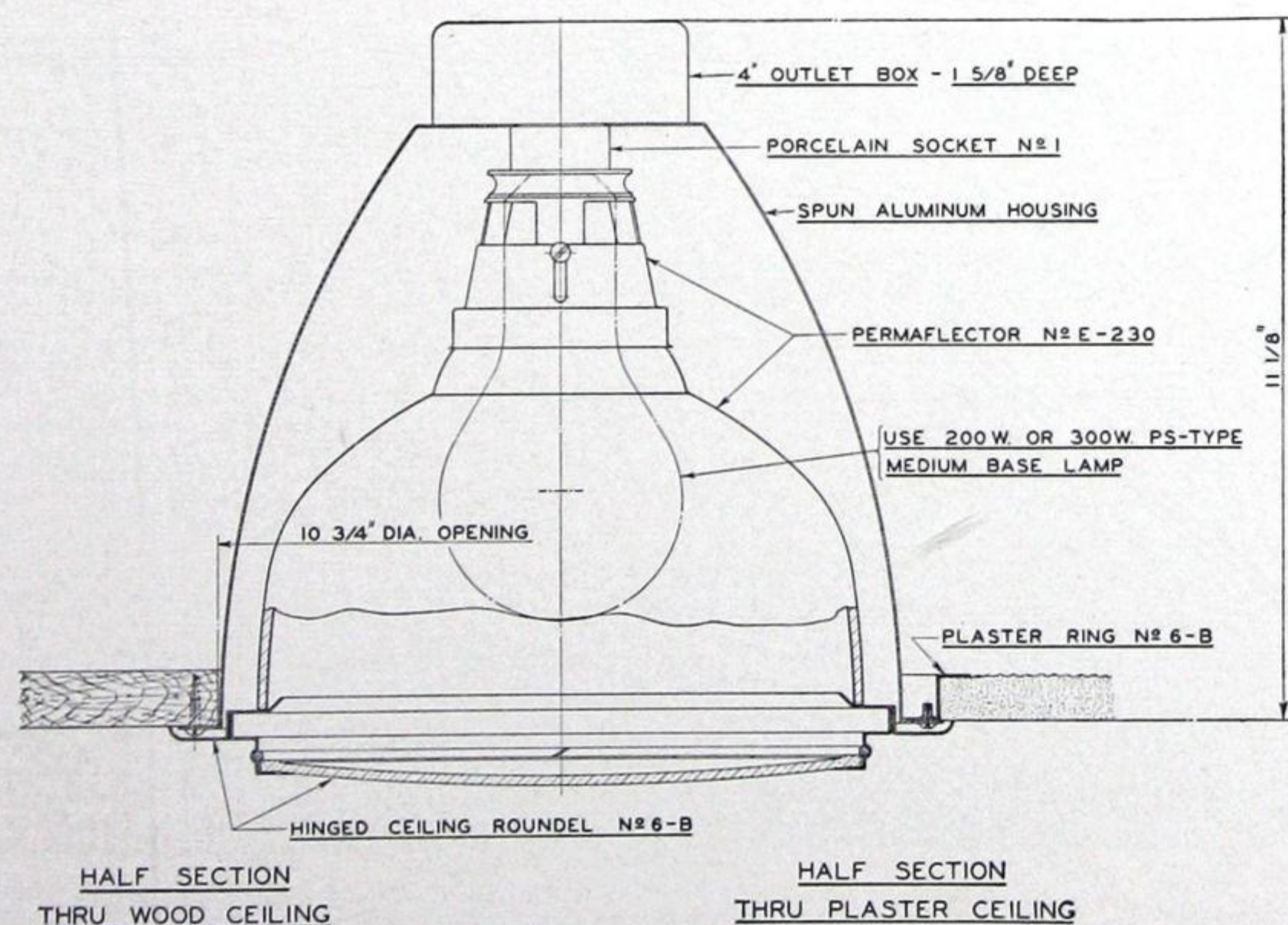
Ceiling Space Required:

- Space Above Ceiling Line—11 1/8 inches.
- Opening to be Cut in Ceiling, Circular—Diam., 10 3/4 inches.

Additional Equipment—for use with No. E-230-7.

For Plaster Ceiling—Use Plaster Ring No. 6-B.

For Protection of Roundel—Use Wire Guard No. WG-6.



No. E-230-7 Recessed in Ceiling

COMBINATION NO. E-230-8

(With Hinged Concentric Louver)

Consists of:

- Permaфлектор No. E-230.
- Spun Aluminum Housing.
- Porcelain Socket No. 1.
- 4" Octagonal Outlet Box, 1 5/8 inches deep.
- Hinged Concentric Louver No. 6-B.

Standard Quantity—1

Weight, Approx. 11 lbs.

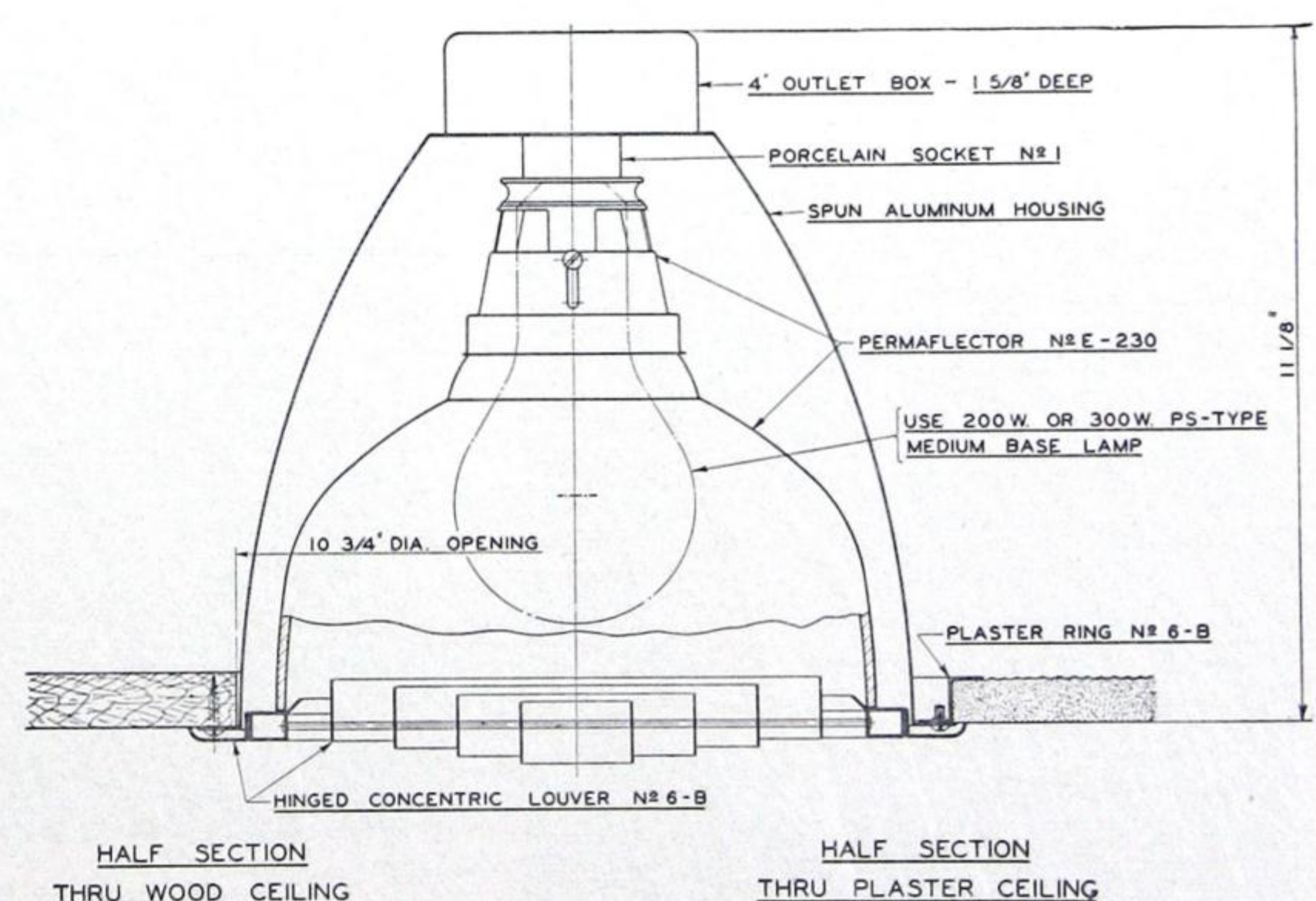
Retail Price, Each\$15.25

CodeETORAT

Ceiling Space Required—Same as for No. E-230-7.

Additional Equipment—for use with No. E-230-8.

For Plaster Ceiling—Use Plaster Ring No. 6-B.



No. E-230-8 Recessed in Ceiling



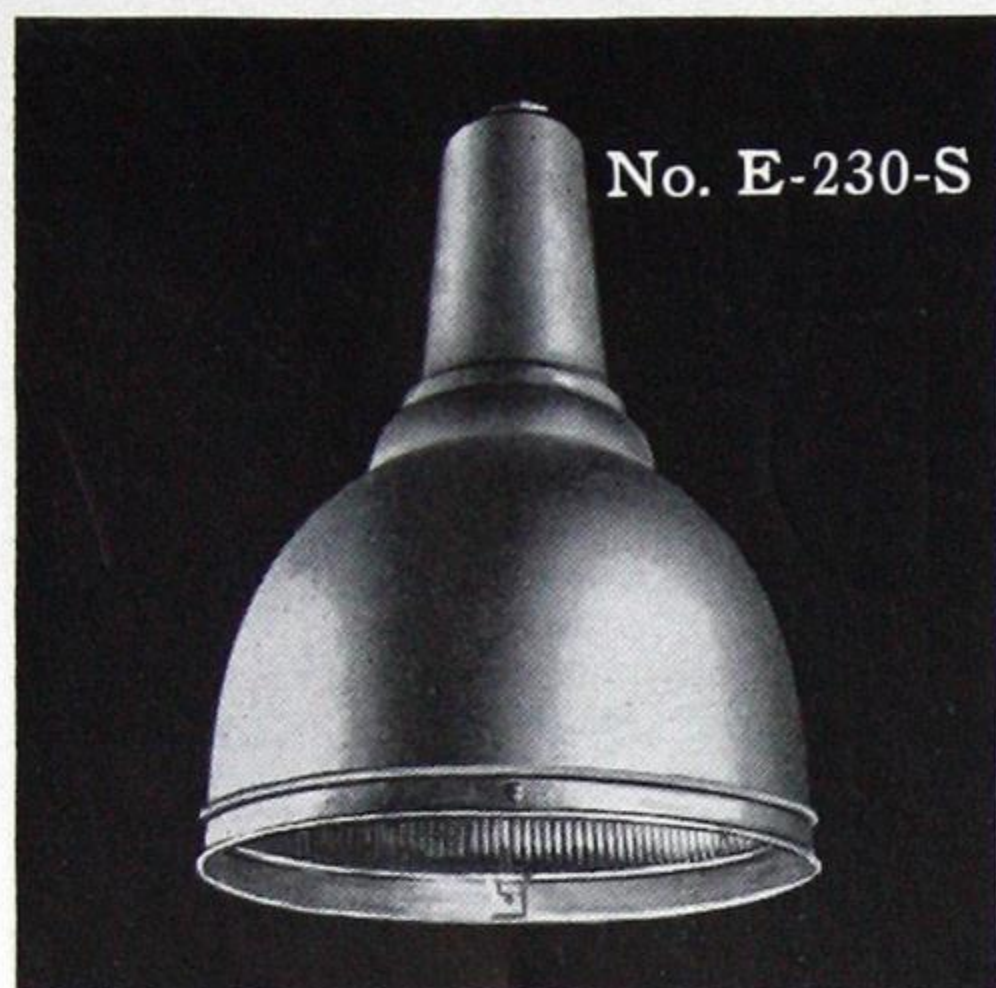
PERMAFLECTOR NO. E-230-S SERIES

To provide a metallic protective enclosure for Permalector No. E-230, there is available this series of units for interiors such as industrial plants, power houses, gymnasiums, auto repair shops and similar interiors where reflector enclosure

seems desirable. These units are available as listed below.

Spacings on Centers:

For uniform illumination, should not exceed height of bottom of reflector above work plane.



No. E-230-S

PERMAFLECTOR NO. E-230-S

(Sprayed and Baked Aluminum Finish)

Consists of:

- Permalector No. E-230-GO.
- Spun Aluminum Housing.
- Removable Reflector Retaining Ring.
- 4-Clips.
- Medium Base Porcelain Socket with female cap—for attaching to any standard 1/2 inch Conduit Hanger.

Lamp Size: 300 watt PS-35 or 200 watt PS-30 Medium Base.

Standard Quantity—1

Weight, Approx. 7 lbs.

Retail Price, Each

\$11.25

Code:

ETUTORES

PERMAFLECTOR NO. E-230-L

Same as Permalector No. E-230-S except equipped with removable Concentric Louver No. RV-230-S for concealment of light source, when required.

Standard Quantity—1

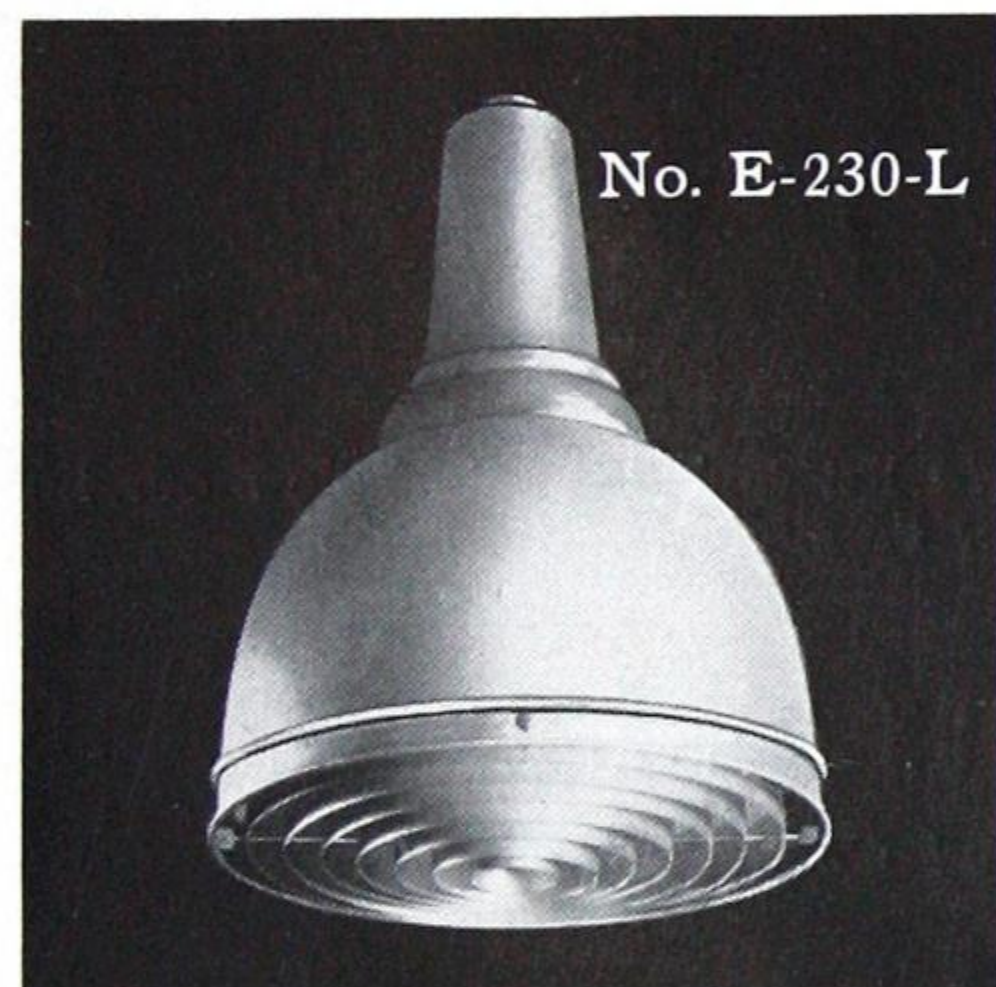
Weight, Approx. 8 lbs.

Retail Price, Each

\$12.40

Code

ETUTOREL



No. E-230-L

PERMAFLECTOR NO. E-230-G

Same as Permalector No. E-230-S except equipped with Hinged Wire Guard No. WG-31 for use where protection of lamp and Permalector is required, as in gymnasiums, indoor tennis courts, etc.

Standard Quantity—1

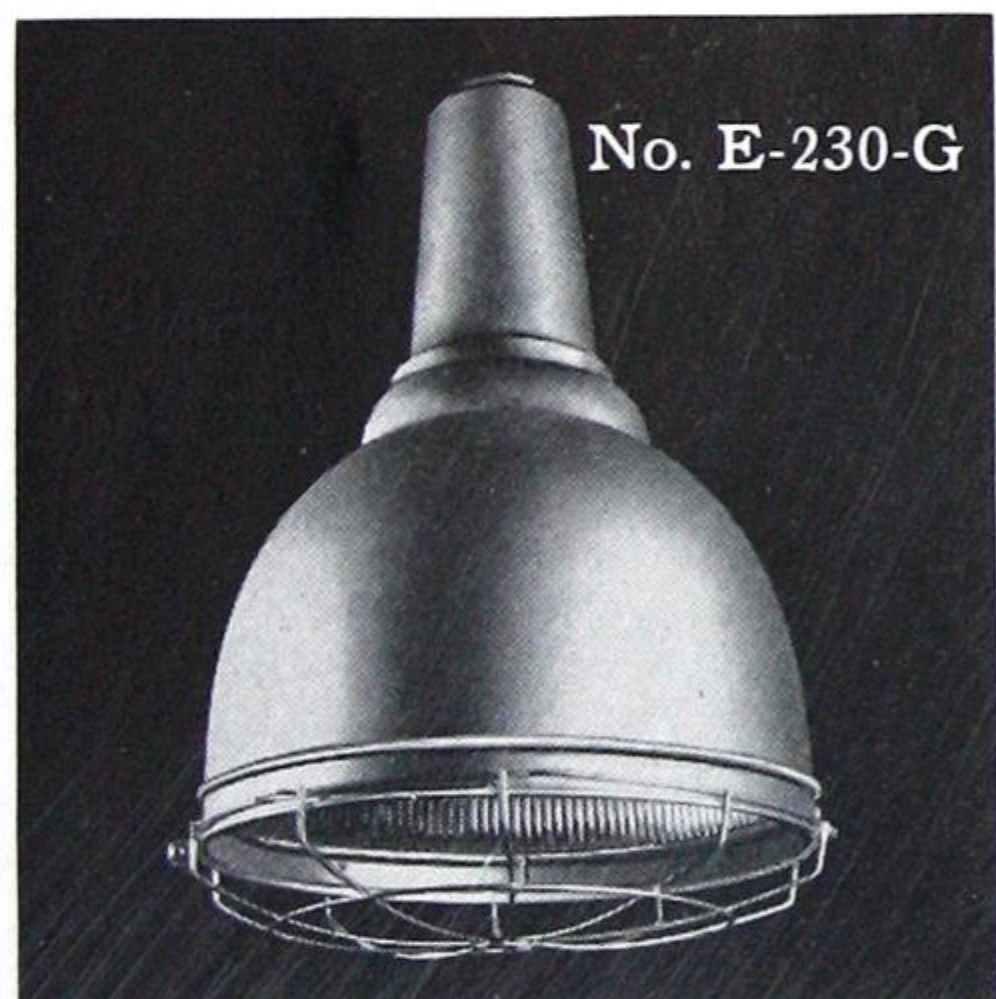
Weight, Approx. 7 lbs.

Retail Price, Each

\$13.05

Code

ETUTORG



No. E-230-G

PERMAFLECTOR NO. E-230-LG

Same as Permalector No. E-230-S except equipped with removable Concentric Louver No. RV-230-S and Hinged Wire Guard No. WG-31.

Standard Quantity—1

Weight, Approx. 8 lbs.

Retail Price, Each

\$14.20

Code

ETUTOLG

PERMAFLECTOR HANGER NO. H-2

(Illustrated On Page 43)

(For use with E-230-S Series)

Consists of:

- Canopy No. B-444.
- Swivel.
- 2 1/2" O.D. Tubing, 6 inches long.
- 1/2" to 3/8" Reducing Bushing.

Standard Quantity—1

Weight, Approx. 3 lbs.

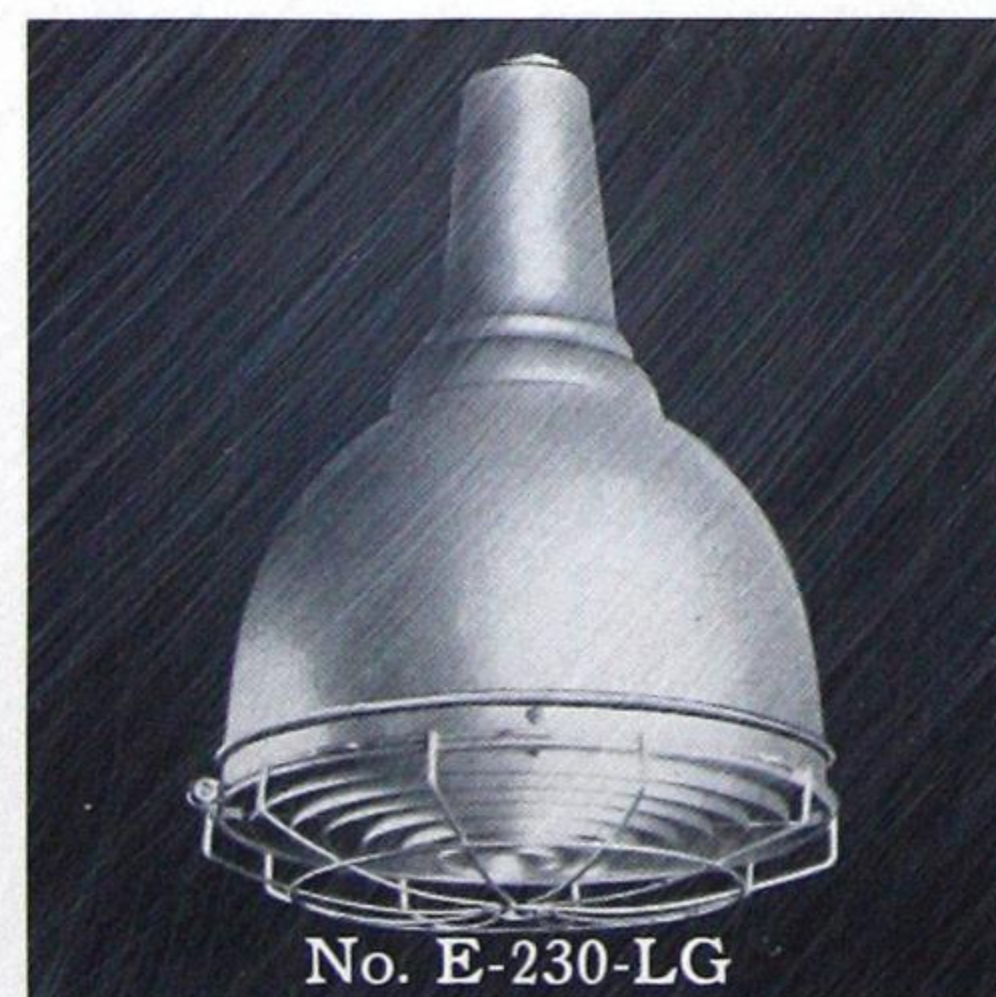
Retail Price, Each

\$3.00

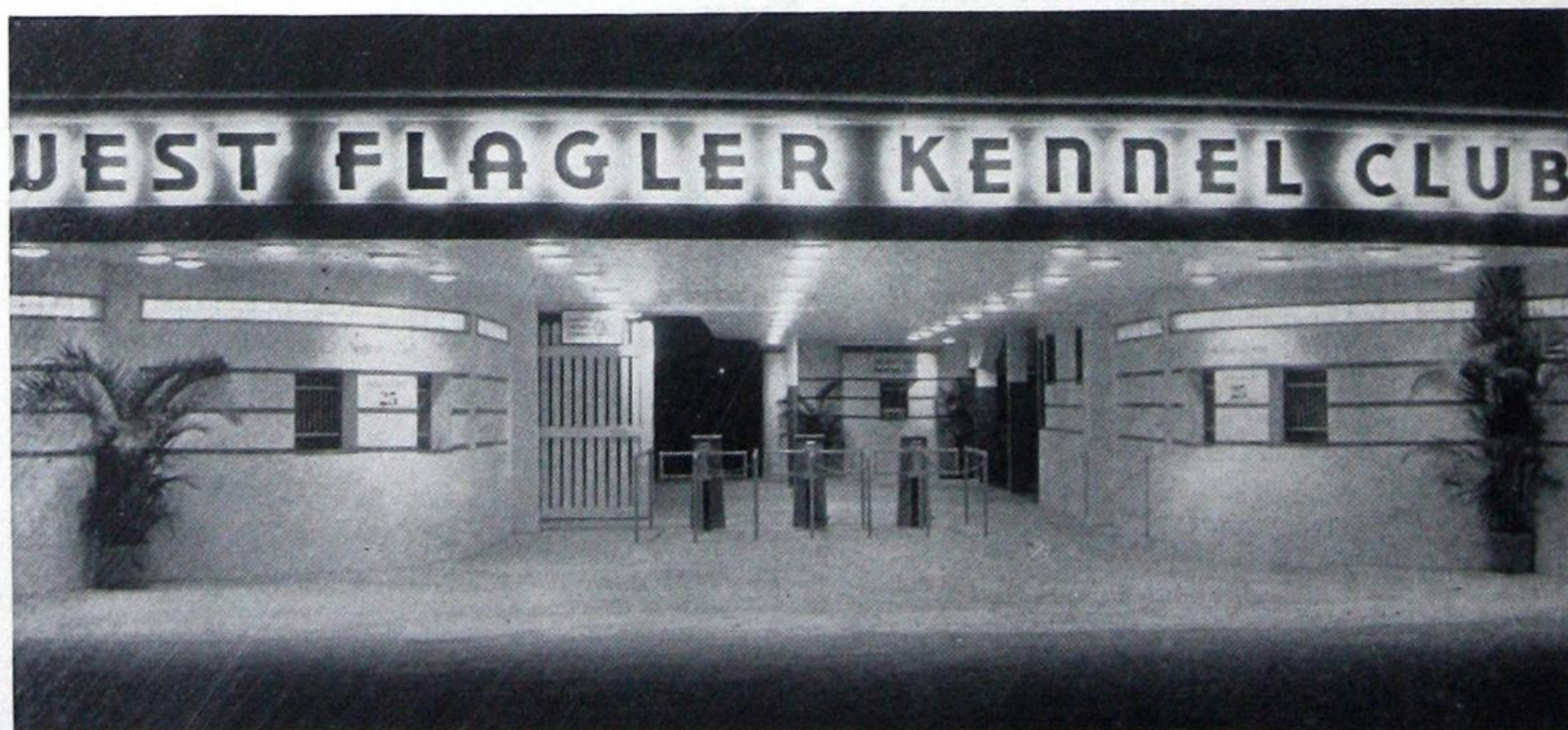
For each additional inch longer than standard length add 5c.

Code

ACHTU



No. E-230-LG



Recessed Permalectors, E-230 Type, with Hinged Ceiling Roundels
West Flagler Kennel Club, Miami, Fla. Architect—Bryan Fleming, Miami, Fla.



PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA

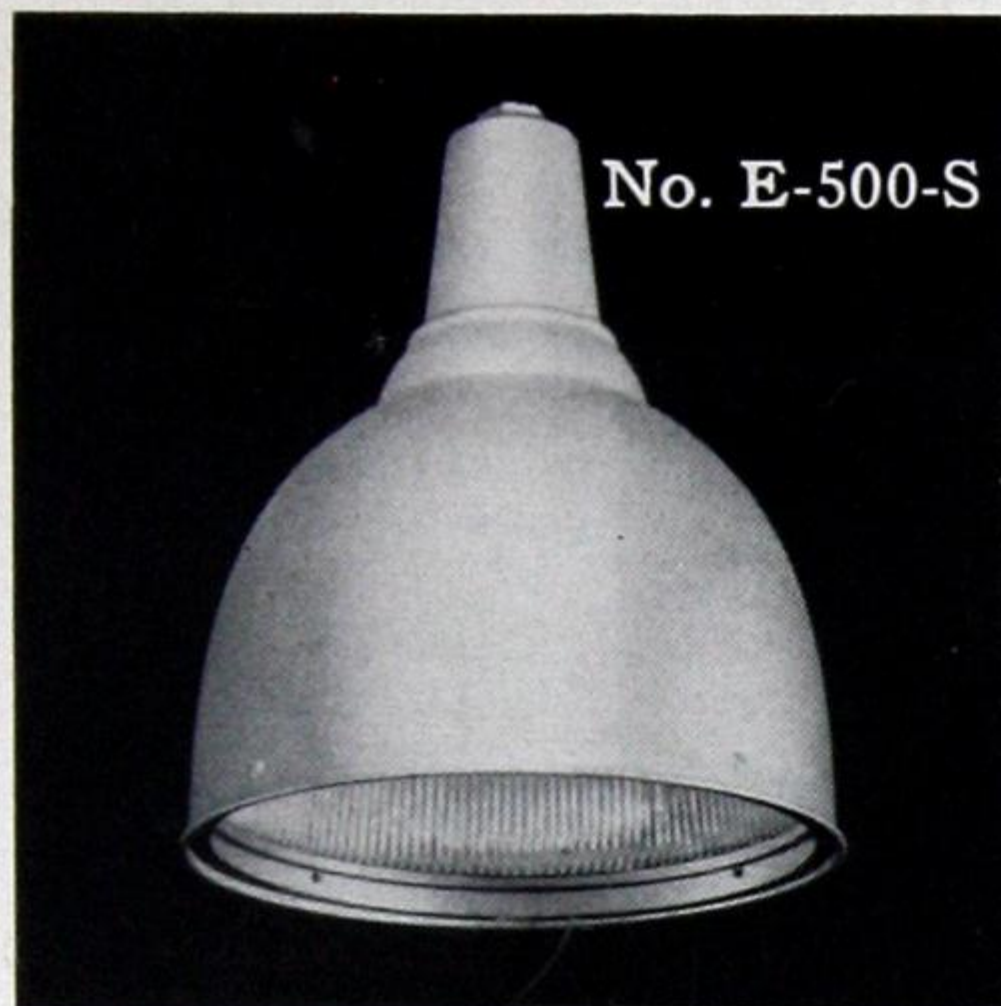
PERMAFLECTOR NO. E-500-S SERIES

To provide a metallic protective enclosure for Permaflexor No. E-500, there is available this series of units for interiors such as industrial high bays, power houses, gymnasiums and similar interiors where reflector enclosure seems desirable.

These units are available as listed below.

Spacings on Centers:

For uniform illumination, should not exceed height of bottom of reflector above work plane.



No. E-500-S

Consists of:

Permaflexor No. E-500-GO.

Spun Aluminum Housing.

Removable Reflector Seating Ring.

Ventilated Porcelain Mogul Socket with female cap—for attaching to any standard 1/2 inch Conduit Hanger.

Lamp Size: 500 watt PS-40 or 300 watt PS-35.

Standard Quantity—1

Weight, Approx. 14 lbs.

Retail Price, Each

\$14.50

Code

EFIHUNDES

PERMAFLECTOR NO. E-500-L

Same as Permaflexor No. E-500-S except equipped with removable Concentric Louver No. RV-500-S for concealment of light source, when required.

Standard Quantity—1

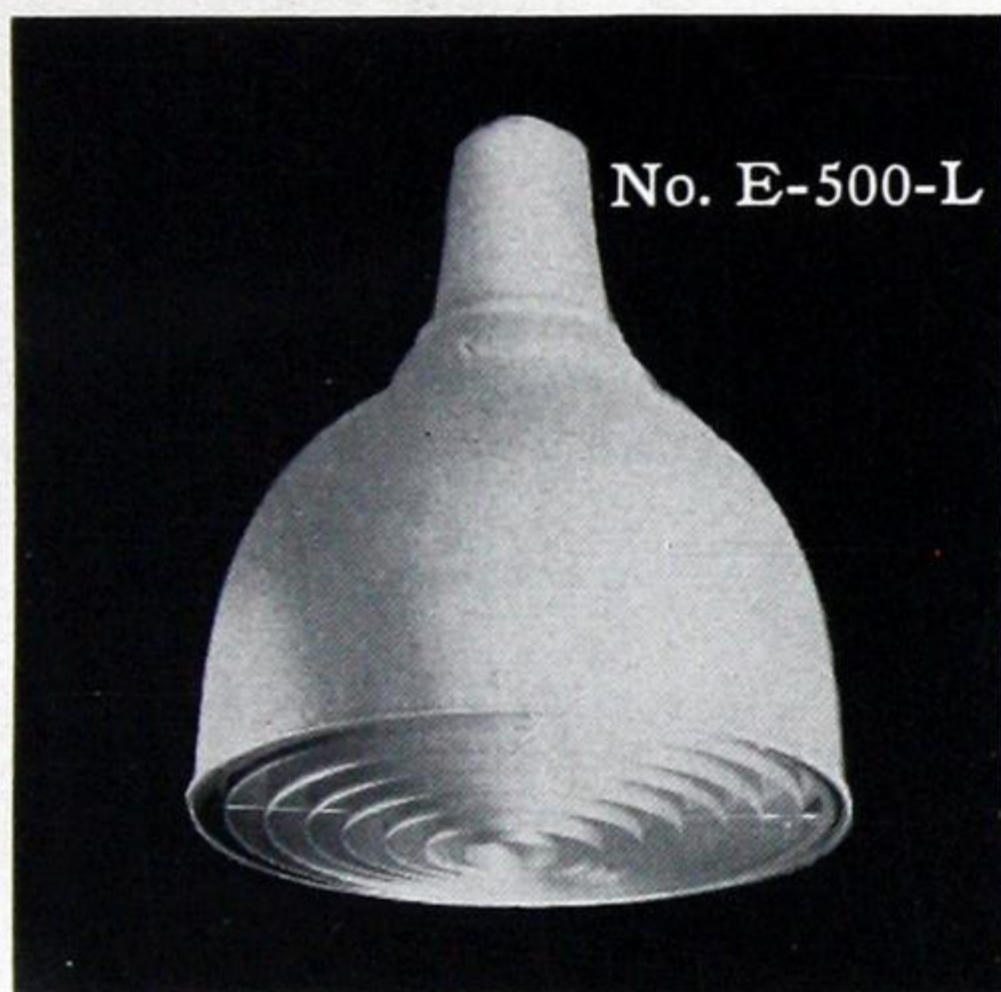
Weight, Approx. 15 lbs.

Retail Price, Each

\$15.95

Code

EFIHUNDEL



No. E-500-L

PERMAFLECTOR NO. E-500-G

Same as Permaflexor No. E-500-S except equipped with Hinged Wire Guard No. WG-32 for use where protection of lamp and Permaflexor is required, as in gymnasiums, indoor tennis courts, etc.

Standard Quantity—1

Weight, Approx. 15 lbs.

Retail Price, Each

\$16.50

Code

EFIHUNGE



No. E-500-G

PERMAFLECTOR NO. E-500-LG

Same as Permaflexor No. E-500-S except equipped with removable Concentric Louver No. RV-500-S and Hinged Wire Guard No. WG-32.

Standard Quantity—1

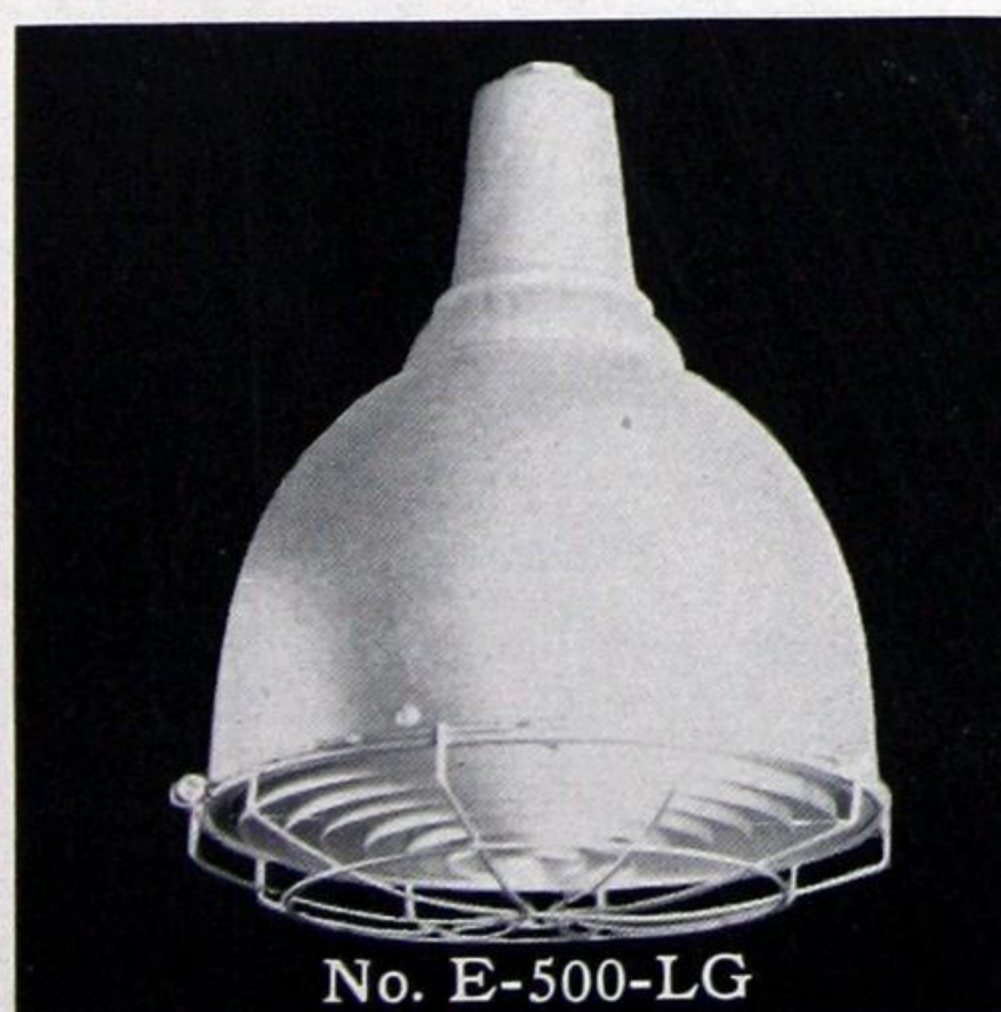
Weight, Approx. 16 lbs.

Retail Price, Each

\$17.95

Code

EFIHUNDELG



No. E-500-LG

PERMAFLECTOR HANGER NO. H-2

(For use with E-500-S Series)

Consists of:

Canopy No. 444.

Swivel.

3 1/2" O.D. Tubing, 6 inches long.

1/2" to 3/8" Reducing Bushing.

Standard Quantity—1

Weight, Approx. 3 lbs.

Retail Price, Each \$3.00

For each additional inch longer than standard length add 5c.

Code

ACHTU

HIGH BAY UNITS FOR MERCURY LAMPS

The mercury vapor lamp is often used in industrial high bay lighting because of its high lumens per watt output. On Page 55 there is listed Permaflexor I-505-S Series in which the 400 watt mercury lamp may be installed.

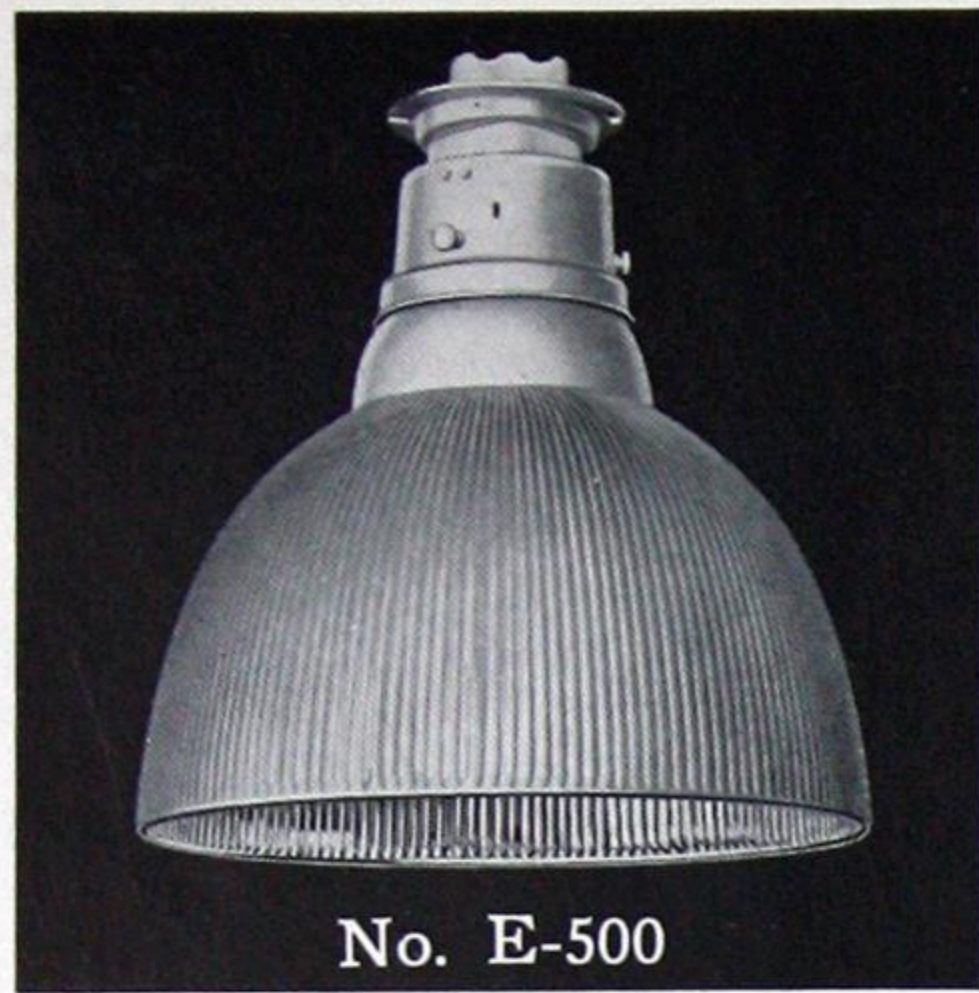


No. E-500-G with Hanger No. H-2, Wire-Guard Closed

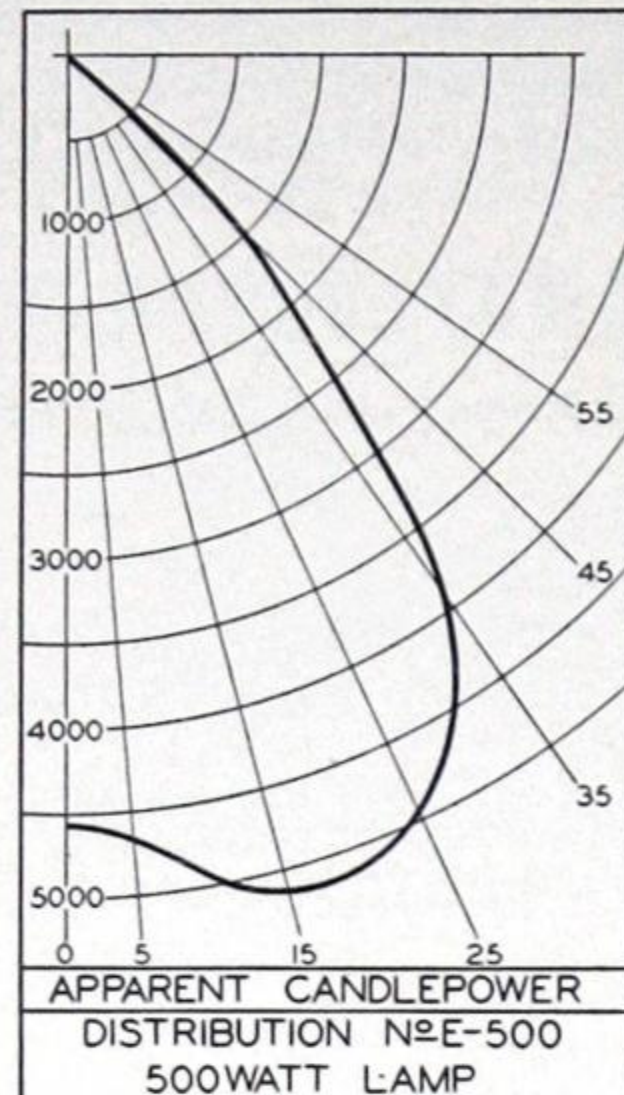


No. E-500-G with Hanger No. H-2, Wire-Guard Open

PERMAFLECTOR NO. E-500 SERIES



No. E-500



Application—A reflector of wide utility. It is used exposed or enclosed in metallic housing for industrial and public space illumination. It is recessed in the ceiling with flush mounting ring and concentric louver or hinged ceiling roundel. Excellent for use above skylights. A good reflector to be incorporated in lantern fixtures.

Spacings on Center:

For uniform illumination, should not exceed height of bottom of reflector above work plane.

Lamp Size: 500 Watt PS-40 or 300 Watt PS-35.

Dimensions:

Height Permaflector No. E-500-GO—9½ inches.
Bottom Opening Circular—Diameter, 11½ inches.

PERMAFLECTOR NO. E-500

Consists of:

Permaflector No. E-500-GO.
Outlet Box Cover Assembly No. B-3.
Holder No. M-3.

Attaches to any standard 4" Outlet Box, 1½ inches deep.

Standard Quantity—1

Weight, Approx. 8 lbs.

Retail Price, Each:

Permaflector No. E-500\$8.70
Permaflector No. E-500-GO (Glass Only).....\$6.85

Code:

Permaflector No. E-500.....EFIHUNDER
Permaflector No. E-500-GO.....EFIHUGLA

Additional Equipment—for use with No. E-500.

May Be Mounted On:

Conduit No. 6 in which case discard Outlet Box Cover.

For Louvered Lighting: Use

Parallel Louver No. EME-500 for external mounting.
Concentric Louver No. EME-500-C for external mounting.

PERMAFLECTOR NO. E-500-B

Consists of:

Permaflector No. E-500-GO.
Porcelain Mogul Socket No. 4.
Holder No. M-3.
Box No. KO-11—for attaching to ½ inch conduit stem.

Standard Quantity—1

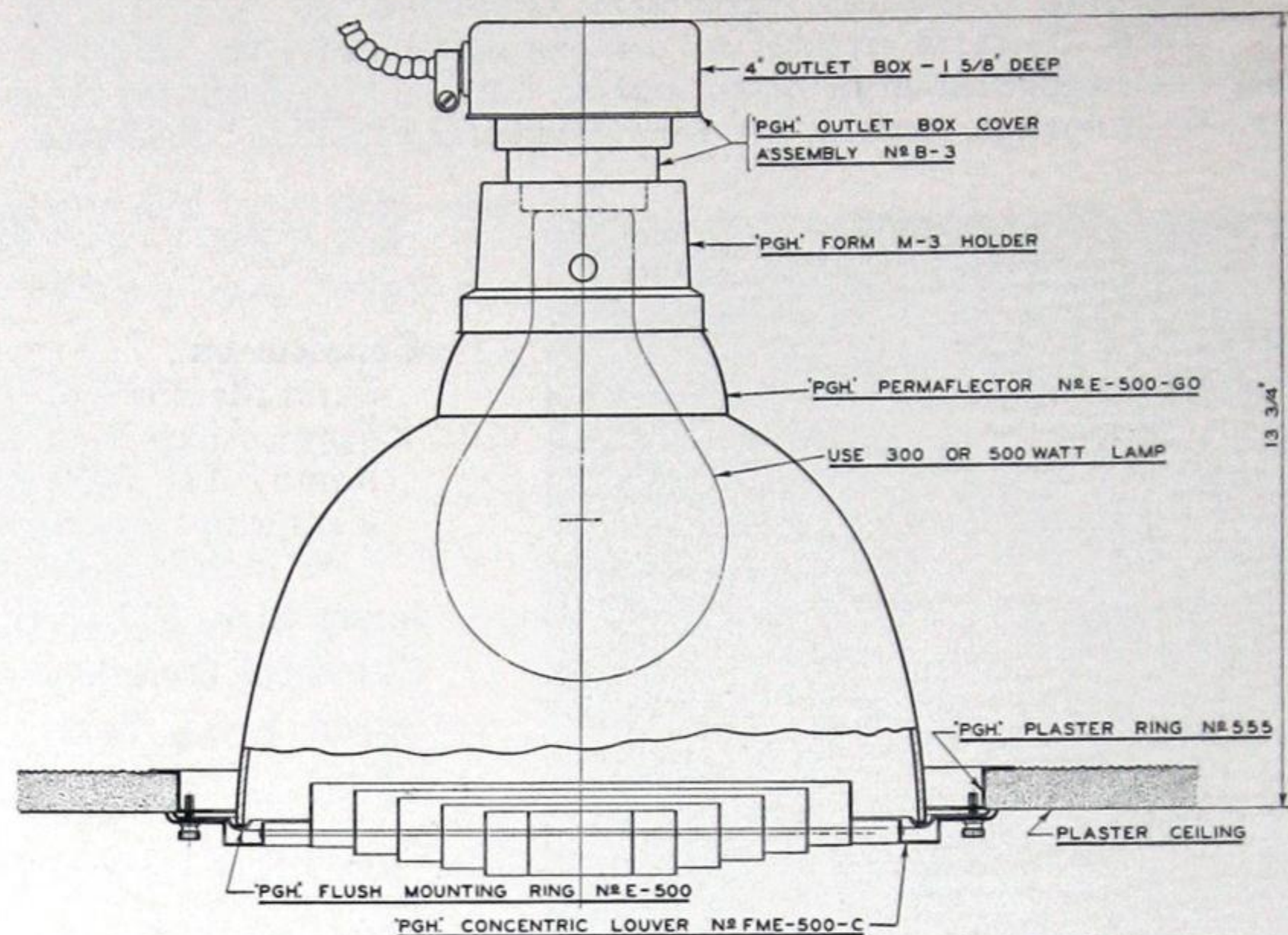
Weight, Approx. 9 lbs.

Retail Price, Each.....\$8.70

CodeEFIVHUNBI

Additional Equipment—for use with No. E-500-B.

For Louvered Lighting—Same as for No. E-500.



No. E-500-2 Recessed in Plaster Ceiling and Louvered

COMBINATION NO. E-500-2

(For Recessed Installation)

Consists of:

Permaflector No. E-500.
Flush Mounting Ring No. E-500.

Standard Quantity—1

Weight, Approx. 8 lbs.

Retail Price, Each.....\$9.85

CodeEFUNTU

Ceiling Space Required:

Space Above Ceiling Line—13¾ inches.
Opening to be Cut in Ceiling, Circular—Diam., 12¼ inches.

Additional Equipment—for use with No. E-500-2.

For Plaster Ceiling—Use Plaster Ring No. 555.

For Colored Lighting—Use Color-Lite No. 81.

For Ceiling Roundel (Not Hinged)—Use

Ceiling Roundel No. 81 with or without Wire Guard No. WG-2.

For Louvered Lighting: Use

Parallel Louver No. FME-500.

Concentric Louver No. FME-500-C.

Egg Crate Louver No. FEC-300.

COMBINATION NO. E-500-4

(Hinged Ceiling Roundel Installation)

Consists of:

Permaflector No. E-500.
Hinged Ceiling Roundel No. 2-B.

Standard Quantity—1

Weight, Approx. 13 lbs.

Retail Price, Each.....\$17.20

CodeEFUNFO

Ceiling Space Required:

Space Above Ceiling Line—14 inches.
Opening to be Cut in Ceiling, Circular—Diam., 13¾ inches.

Additional Equipment—for use with No. E-500-4.

For Plaster Ceiling—Use Plaster Ring No. 2-B.

For Protection of Roundel—Use Wire Guard No. WG-2.

COMBINATION NO. E-500-5

(Hinged Concentric Louver Installation)

Consists of:

Permaflector No. E-500.
Hinged Concentric Louver No. 2-B.

Standard Quantity—1

Weight, Approx. 11 lbs.

Retail Price, Each.....\$14.20

CodeEFUNFI

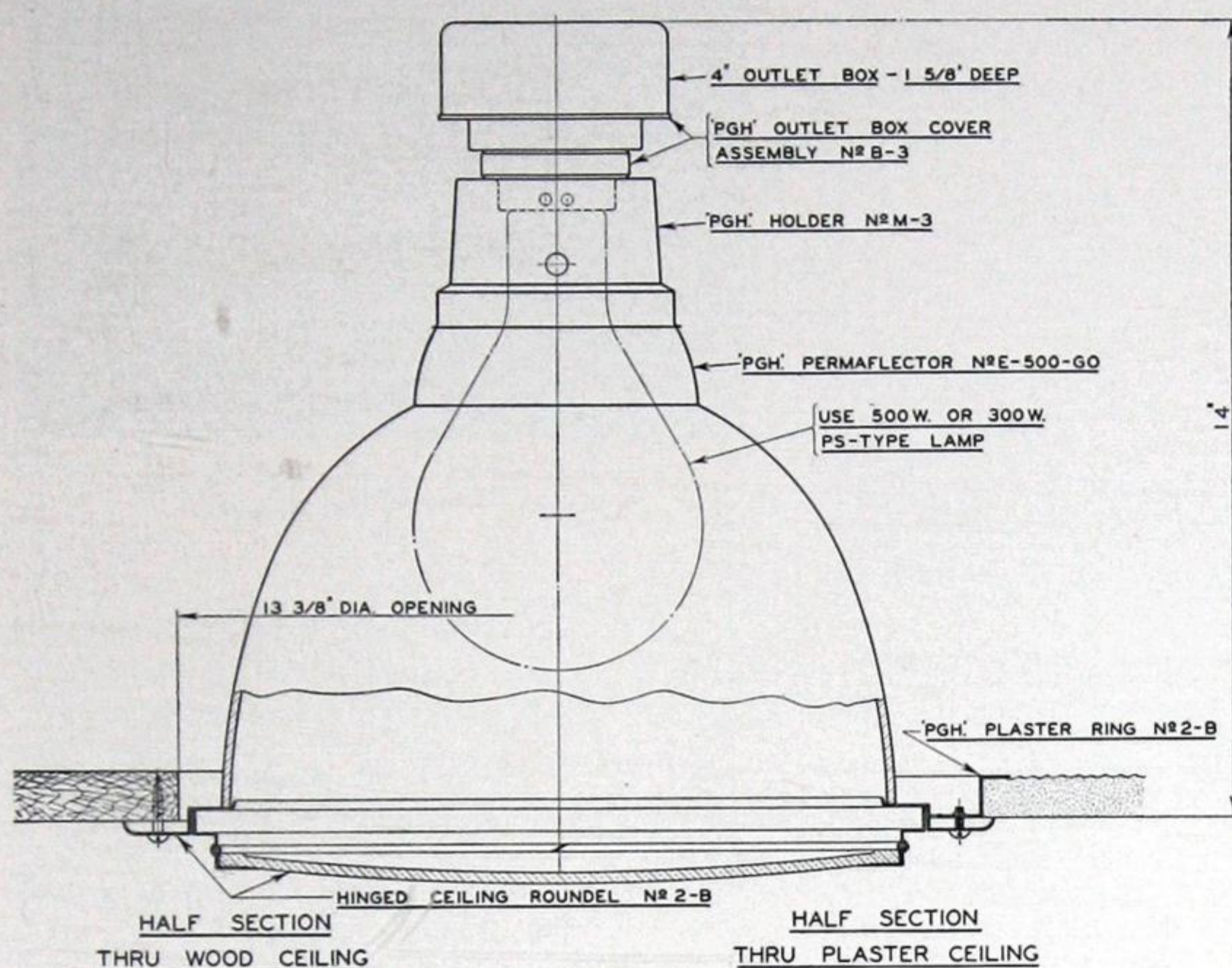
Ceiling Space Required:

Space Above Ceiling Line—14 inches.
Opening to be Cut in Ceiling, Circular—Diam., 13¾ inches.

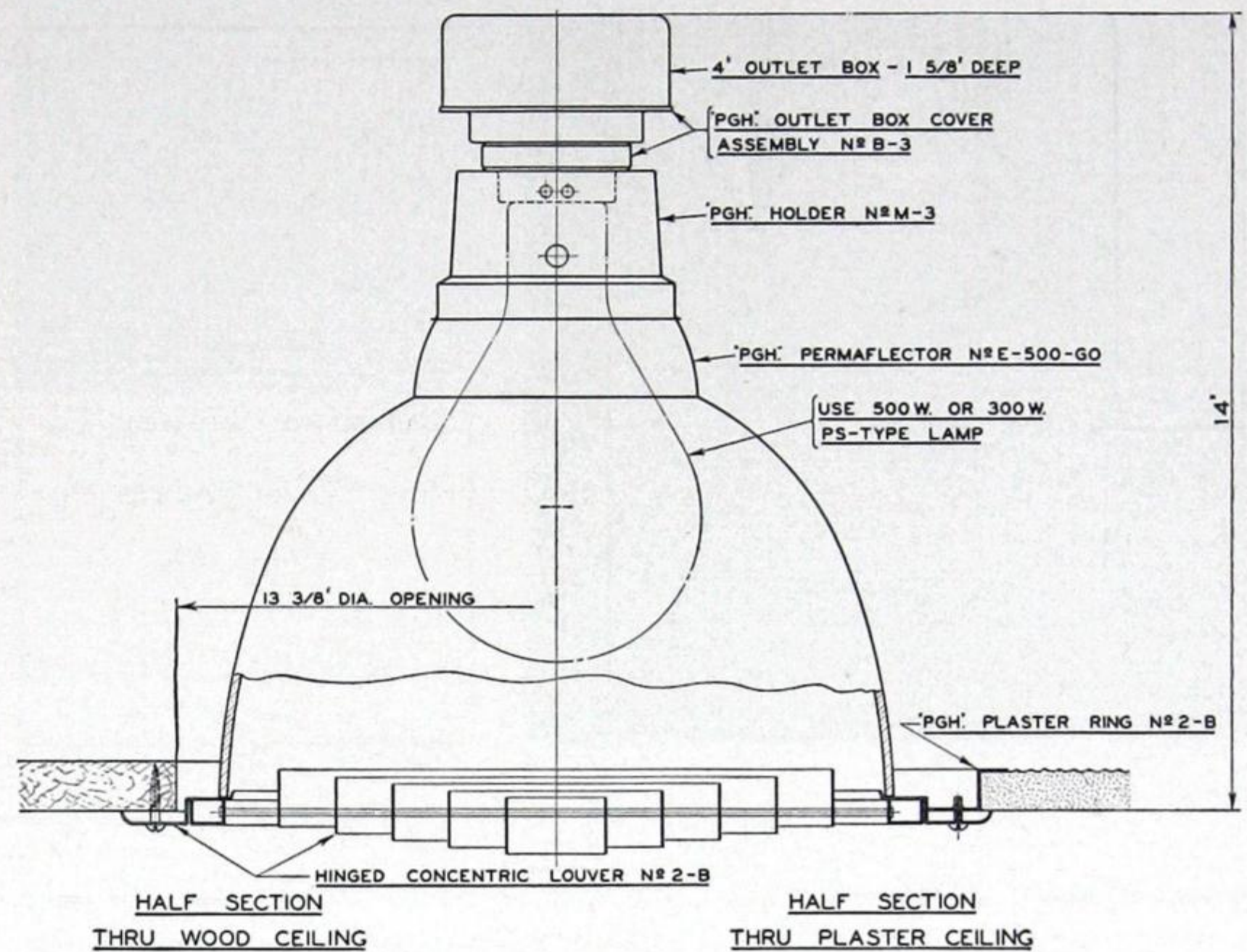
Additional Equipment—for use with No. E-500-5.

For Plaster Ceiling—Use Plaster Ring No. 2-B.

PERMAFLECTOR NO. E-500 SERIES



No. E-500-4 Recessed in Ceiling



No. E-500-5 Recessed in Ceiling

ENCLOSED COMBINATIONS

(For Recessed Installations)

(Using 500 or 300 Watt PS-Type Lamp)

Where mechanical protection of the recessed Permaflexor is necessary, the addition of a spun aluminum housing ac-

complishes the object. We list and illustrate below our line of fully enclosed units for Permaflexor No. E-500.

COMBINATION NO. E-500-7

(With Hinged Ceiling Roundel)

Consists of:

- Permaflexor No. E-500-GO.
- Porcelain Mogul Socket No. 4.
- Holder
- Spun Aluminum Housing.
- 4" Octagonal Outlet Box, 2 1/8 inches deep.
- Hinged Ceiling Roundel No. 2-B.

Standard Quantity—1

Weight, Approx. 20 lbs.

Retail Price, Each.....\$25.00

CodeEFUNSET

Ceiling Space Required:

Space Above Ceiling Line—14 inches.

Opening to be Cut in Ceiling, Circular—Diam., 13 3/8 inches.

Additional Equipment—for use with No. E-500-7.

For Plaster Ceiling—Use Plaster Ring No. 2-B.

For Protection of Roundel—Use Wire Guard No. WG-2.

COMBINATION NO. E-500-8

(With Hinged Concentric Louver)

Consists of:

- Permaflexor No. E-500-GO.
- Porcelain Mogul Socket No. 4.
- Holder
- Spun Aluminum Housing.
- 4" Octagonal Outlet Box, 2 1/8 inches deep.
- Hinged Concentric Louver No. 2-B.

Standard Quantity—1

Weight, Approx. 18 lbs.

Retail Price, Each.....\$22.00

CodeEFUNAT

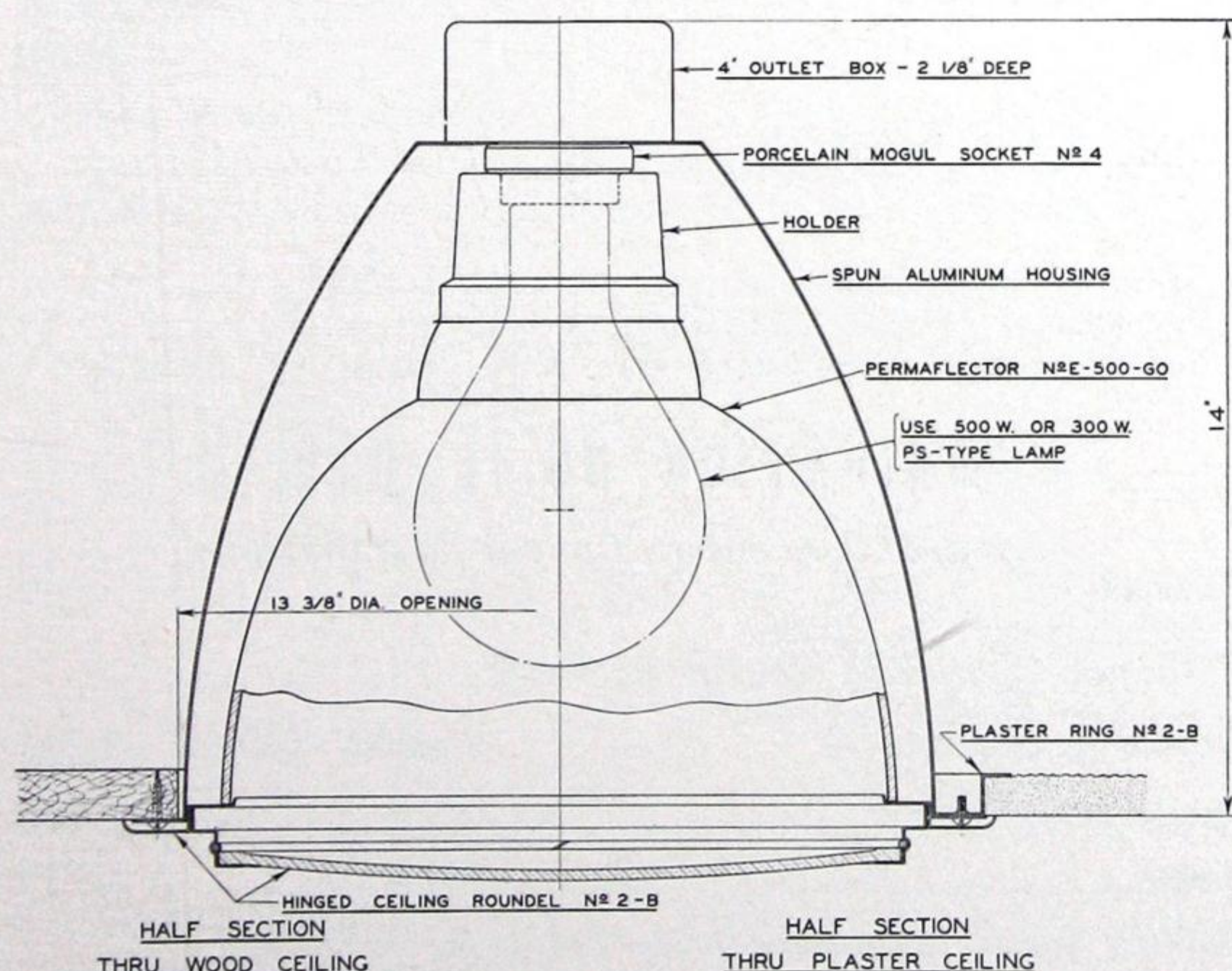
Ceiling Space Required:

Space Above Ceiling Line—14 inches.

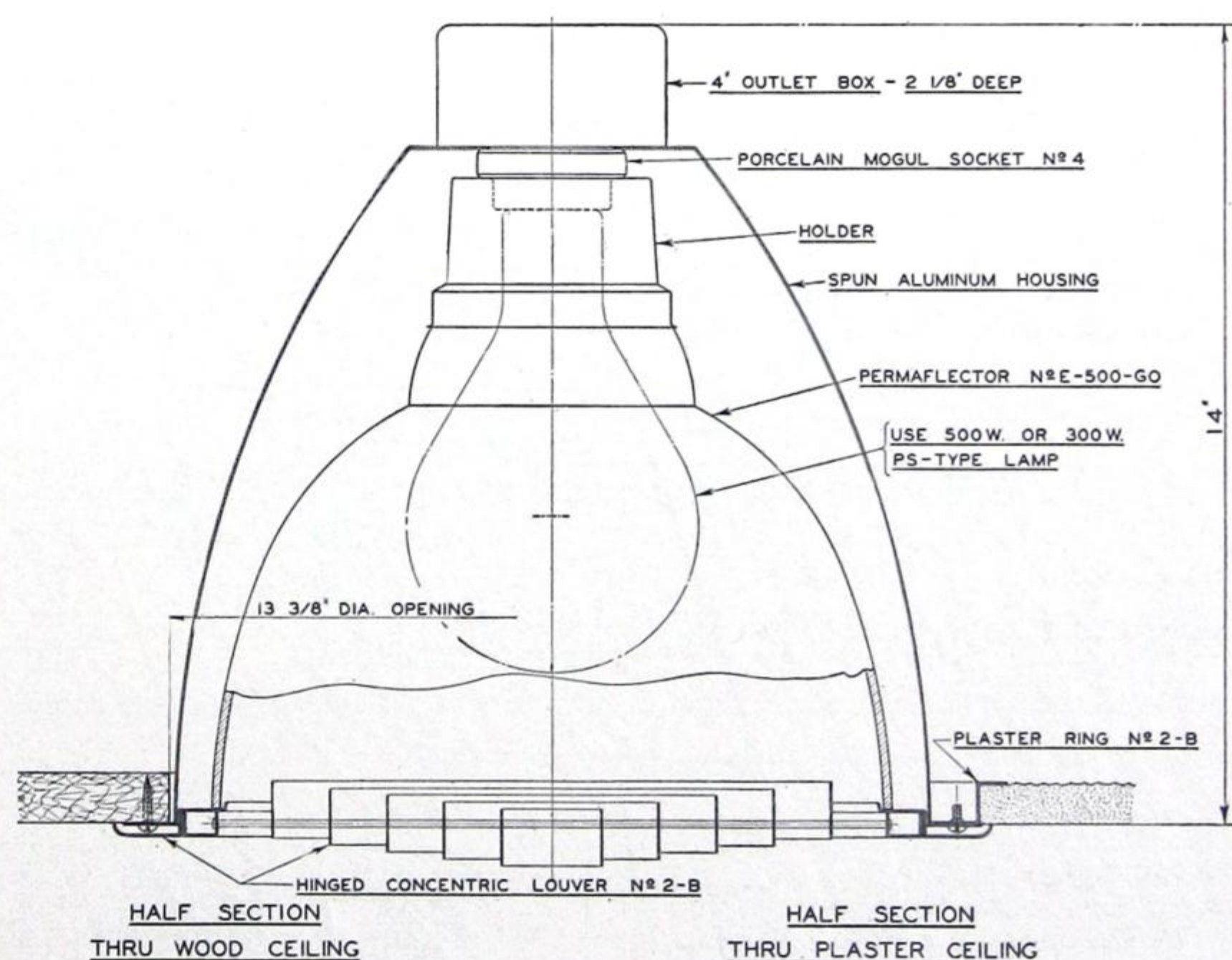
Opening to be Cut in Ceiling, Circular—Diam., 13 3/8 inches.

Additional Equipment—for use with No. E-500-8.

For Plaster Ceiling—Use Plaster Ring No. 2-B.

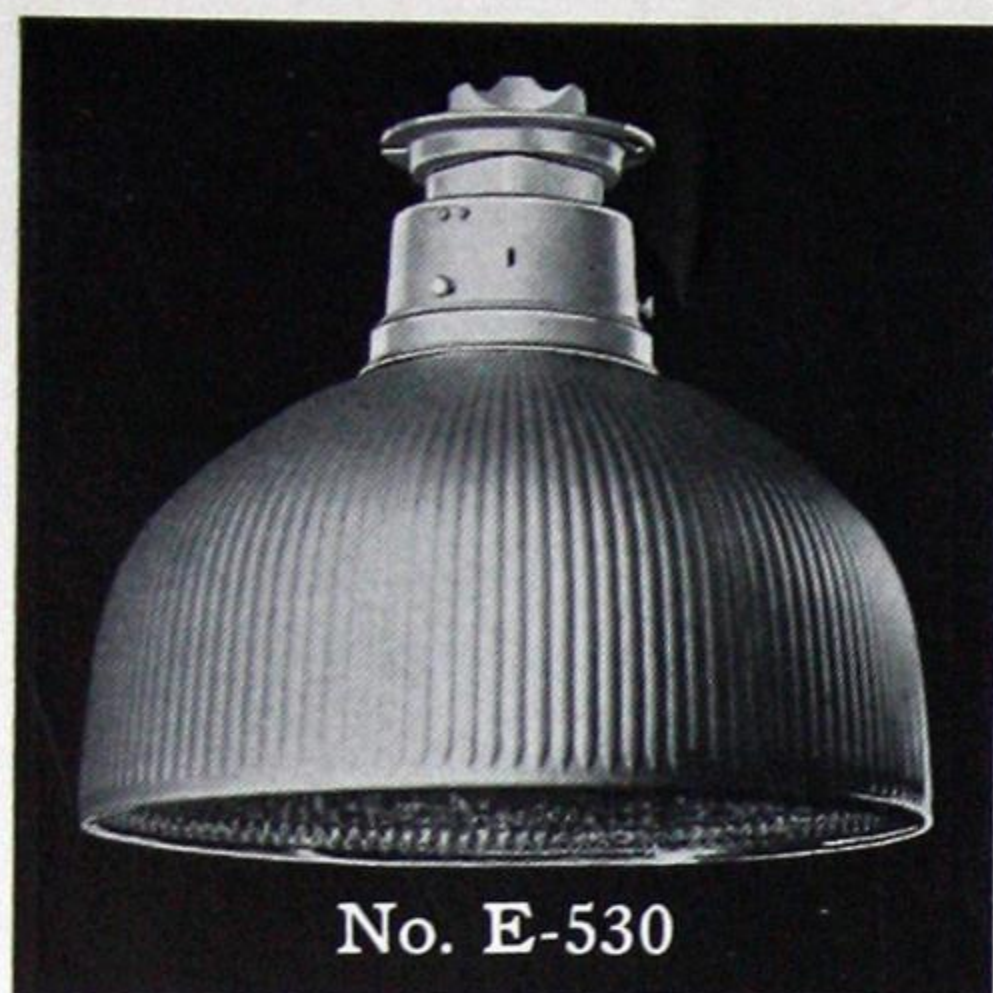


No. E-500-7 Recessed in Ceiling



No. E-500-8 Recessed in Ceiling

PERMAFLECTOR NO. E-530 SERIES



No. E-530

Distribution Chart
Not Available At
This Printing. Dis-
tribution Similar To
No. E-230 Shown on
Page 40.

Application—A broadly distributing reflector with a desirable concentration at centers. Excellent for recessed down lighting of stores and similar interiors, hand ball courts, gymnasiums, etc.

Spacings on Centers:

For uniform illumination, should not exceed height of bottom of reflector above work plane.

Lamp Size: 500 Watt PS-40 or 300 Watt PS-35.

Dimensions:

Height Permaflector No. E-530-GO—9 inches.

Bottom Opening Circular—Diameter 13½ inches.

PERMAFLECTOR NO. E-530

Consists of:

Permaflector No. E-530-GO.

Outlet Box Cover Assembly No. B-3.

Holder No. M-3.

Attaches to any standard 4" Outlet Box, 1½ inches deep.

Standard Quantity—1

Weight, Approx. 8 lbs.

Retail Price, Each:

Permaflector No. E-530\$9.75

Permaflector No. E-500-GO (Glass Only).....\$7.90

Code: Permaflector No. E-530EFITE

Permaflector No. E-530-GOEFIGO

Additional Equipment—for use with No. E-530.

May Be Mounted On:

Conduit No. 6, in which case discard outlet box cover.

For Colored Lighting: Use

Color-Lite No. 8 for external mounting.

PERMAFLECTOR NO. E-530-B

Consists of:

Permaflector No. E-530-GO.

Porcelain Mogul Socket No. 4.

Holder No. M-3.

Box No. KO-11—for attaching to ½" conduit stem.

Standard Quantity—1

Weight, Approx. 9 lbs.

Retail Price, Each.....\$9.75

CodeEFIB

Additional Equipment—for use with No. E-530-B.

For Colored Lighting—Same as for No. E-530.

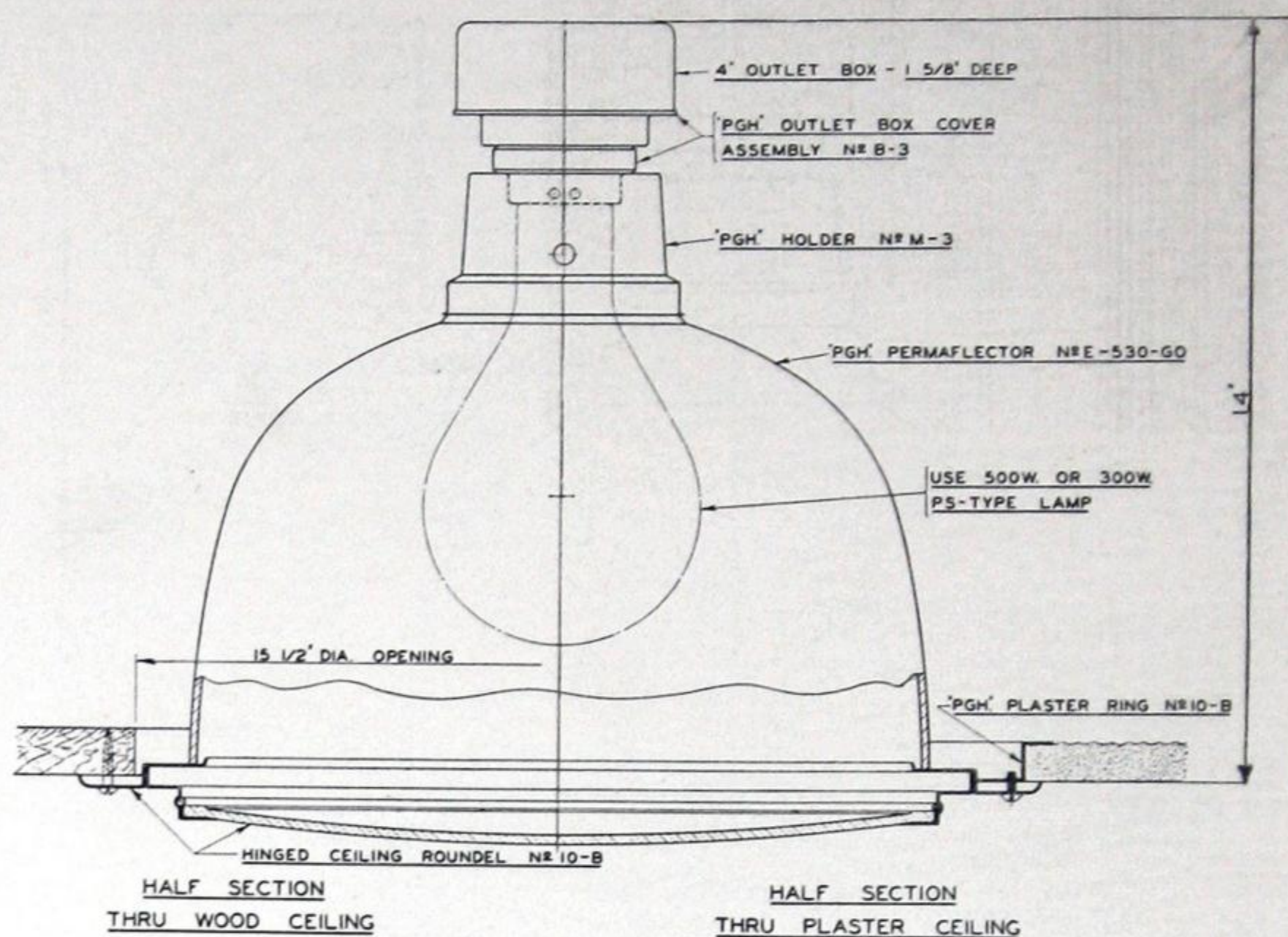
THREE-LIGHT EQUIPMENT

The substitution of Three-Light Mogul Socket No. 5 for Standard Mogul Socket No. 4, converts the following items for use with:

200-300-500 Watt PS-40, Three-Light Lamp or

150-200-350 Watt PS-35, Three-Light Lamp.

Catalog No.	Std. Quan.	Retail Price Each	Code
Permaflector No. E-530, 3-Light	1	\$10.00	EFITRE
Permaflector No. E-530-B, 3-Light	1	10.00	EFIBRE
Combination No. E-530-2, 3-Light	1	11.50	EFITURE
Combination No. E-530-4, 3-Light	1	21.00	EFIFORE
Combination No. E-530-5, 3-Light	1	17.00	EFIFRE



E-530-4 Recessed in Ceiling

COMBINATION NO. E-530-2

(For Recessed Installation)

Consists of:

Permaflector No. E-530.

Flush Mounting Ring No. C-500.

Standard Quantity—1

Weight, Approx. 10 lbs.

Retail Price, Each.....\$11.25

CodeEFITU

Ceiling Space Required:

Space Above Ceiling Line—13½ inches.

Opening to be Cut in Ceiling, Circular—Diam., 13¾ inches.

Additional Equipment—for use with No. E-530-2.

For Plaster Ceiling—Use Plaster Ring No. C-500.

For Louvered Lighting—Use

Concentric Louver No. FMC-500-C.

COMBINATION NO. E-530-4

(Hinged Ceiling Roundel Installation)

Consists of:

Permaflector No. E-530.

Hinged Ceiling Roundel No. 10-B.

Standard Quantity—1

Weight, Approx. 14 lbs.

Retail Price, Each.....\$20.75

CodeEFIFO

Ceiling Space Required:

Space Above Ceiling Line—14 inches.

Opening to be Cut in Ceiling, Circular—Diam., 15½ inches.

Additional Equipment—for use with No. E-530-4.

For Plaster Ceiling—Use Plaster Ring No. 10-B.

For Protection of Roundel—Use Wire Guard No. WG-10.

COMBINATION NO. E-530-5

(Hinged Concentric Louver Installation)

Consists of:

Permaflector No. E-530.

Hinged Concentric Louver No. 10-B.

Standard Quantity—1

Weight, Approx. 12 lbs.

Retail Price, Each.....\$16.75

CodeEFIFY

Ceiling Space Required—Same as for No. E-530-4.

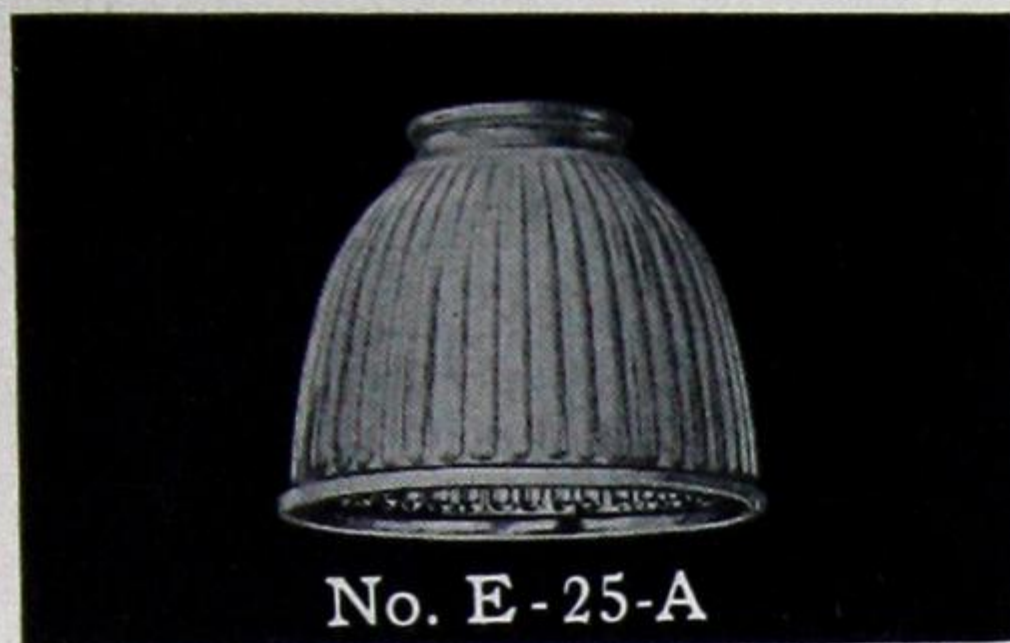
Additional Equipment—for use with No. E-530-5.

For Plaster Ceiling—Use Plaster Ring No. 10-B.

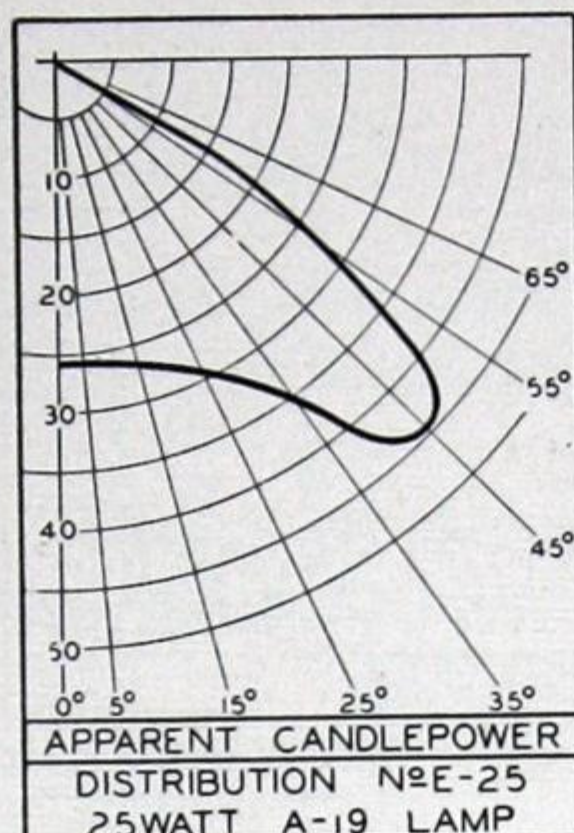


PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA

PERMAFLECTOR NO. E-25-A



No. E-25-A



Minimum Spacings: for

Mounting on Conduit No. 1 or No. 12—5 inches on centers.
Mounting on Knockout Strip No. KO-1—6 inches on centers.

Dimensions:

Height of Permaflector No. E-25-A—3½ inches.
Bottom Opening Circular—Diameter, 4½ inches.

Lamp Size—25 Watt A-19; 60 Watt A-19.

PERMAFLECTOR NO. E-25-A

Standard Quantity—20

Weight, Approx. 12 lbs.

Retail Price, Each.....\$1.50

CodeETUFIVE

Additional Equipment—for use with No. E-25-A.

Holder:

- For Grooved Porcelain Socket—Use
2¼" Form "SR" Holder for 25 Watt A-19 Lamp.
- For Porcelain Sockets No. 1 or No. KO-8—Use
2¼" Form "S" Holder for 25 Watt A-19 Lamp.
- 2¼" Form "SL" Holder for 60 Watt A-19 Lamp.

May Be Installed With: Outlet Box Cover Assembly No. B-1-3¼ or B-1-4 with 2¼" Form "S" or "SL" Holder.

May Be Mounted On:

- Conduit No. 1 or Knockout Strip No. KO-1 with 2¼" Form "S" or "SL" Holder.
- Conduit No. 12 with 2¼" Form "SR" Holder.

For Colored Lighting: Use

Color-Lite No. 12-A or No. 12-ADB.

COMBINATION NO. E-25-2

(For Recessed Installation)
(Use 25 Watt A-19 Lamp)

Consists of:

- Permaflector No. E-25-A.
- Outlet Box Cover Assembly No. B-1-3¼-S.
- Flush Mounting Ring No. I-25.

Standard Quantity—20

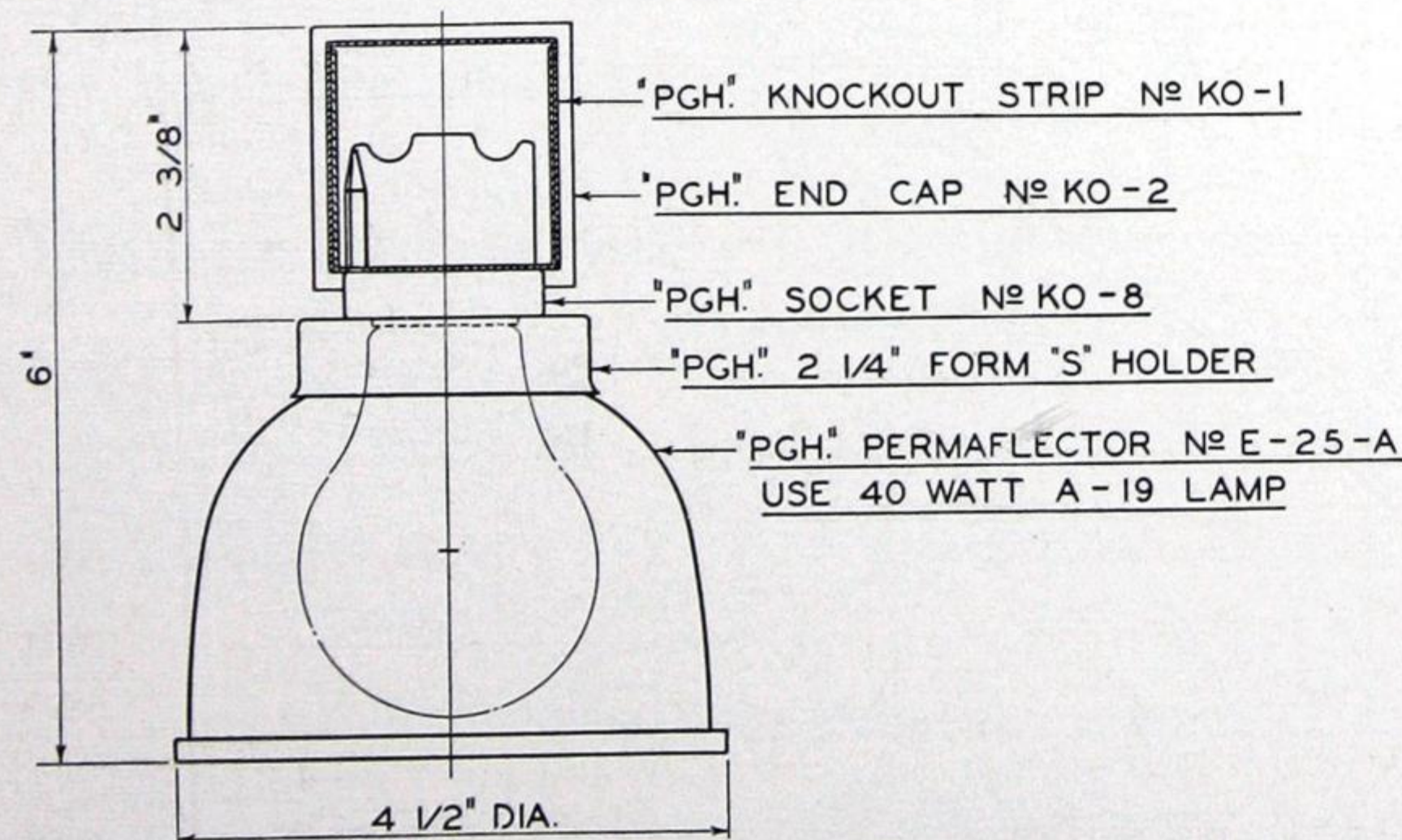
Weight, Approx. 24 lbs.

Retail Price, Each.....\$2.40

CodeETUFITU

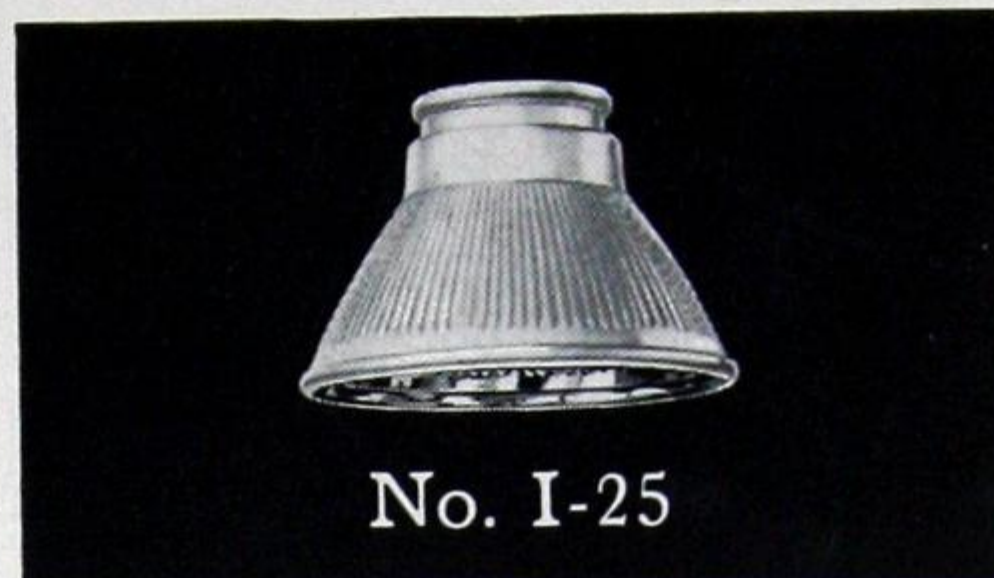
Ceiling Space Required:

- Space Above Ceiling Line—5½ inches.
- Opening to be Cut in Ceiling, Circular—Diam., 4¾ inches.

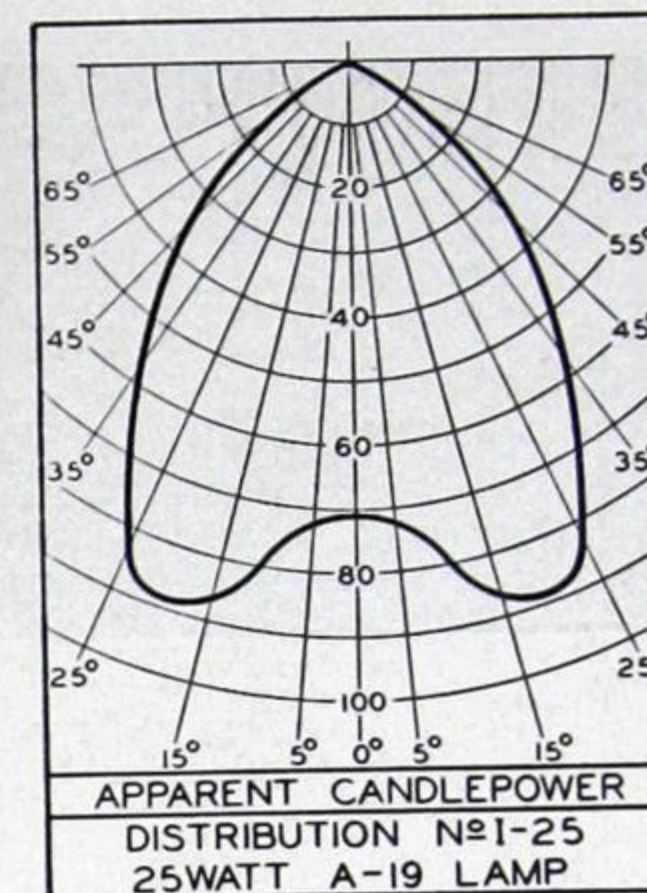


No. E-25-A External Mounting

PERMAFLECTOR NO. I-25



No. I-25



Minimum Spacings: for

Mounting on Conduit No. 1 or No. 12—5 inches on centers.
Mounting on Knockout Strip No. KO-1—6 inches on centers.

Dimensions:

Height Permaflector No. I-25—3 inches.
Bottom Opening Circular—Diameter, 4½ inches.

Lamp Size—25 Watt A-19; 60 Watt A-19.

PERMAFLECTOR NO. I-25

Standard Quantity—20

Weight, Approx. 10½ lbs.

Retail Price, Each.....\$1.25

CodeEYETUFI

Additional Equipment—for use with No. I-25.

Holder:

- For Grooved Porcelain Socket—Use
2¼" Form "SR" Holder for 25 Watt A-19 Lamp.
- For Porcelain Sockets No. 1 or No. KO-8—Use
2¼" Form "S" Holder for 25 Watt A-19 Lamp.
- 2¼" Form "SL" Holder for 60 Watt A-19 Lamp.

May Be Installed With: Outlet Box Cover Assembly No. B-1-3¼ or B-1-4 with 2¼" Form "S" or "SL" Holder.

May Be Mounted On:

- Conduit No. 1 or Knockout Strip No. KO-1 with 2¼" Form "S" or "SL" Holder.
- Conduit No. 12 with 2¼" Form "SR" Holder.

For Colored Lighting: Use

Color-Lite No. 12-A or No. 12-ADB.

COMBINATION NO. I-25-2

(For Recessed Installations)
(Use 25 Watt A-19 Lamp)

Consists of:

- Permaflector No. I-25.
- Outlet Box Cover Assembly No. B-1-3¼-S.
- Flush Mounting Ring No. I-25.

Standard Quantity—20

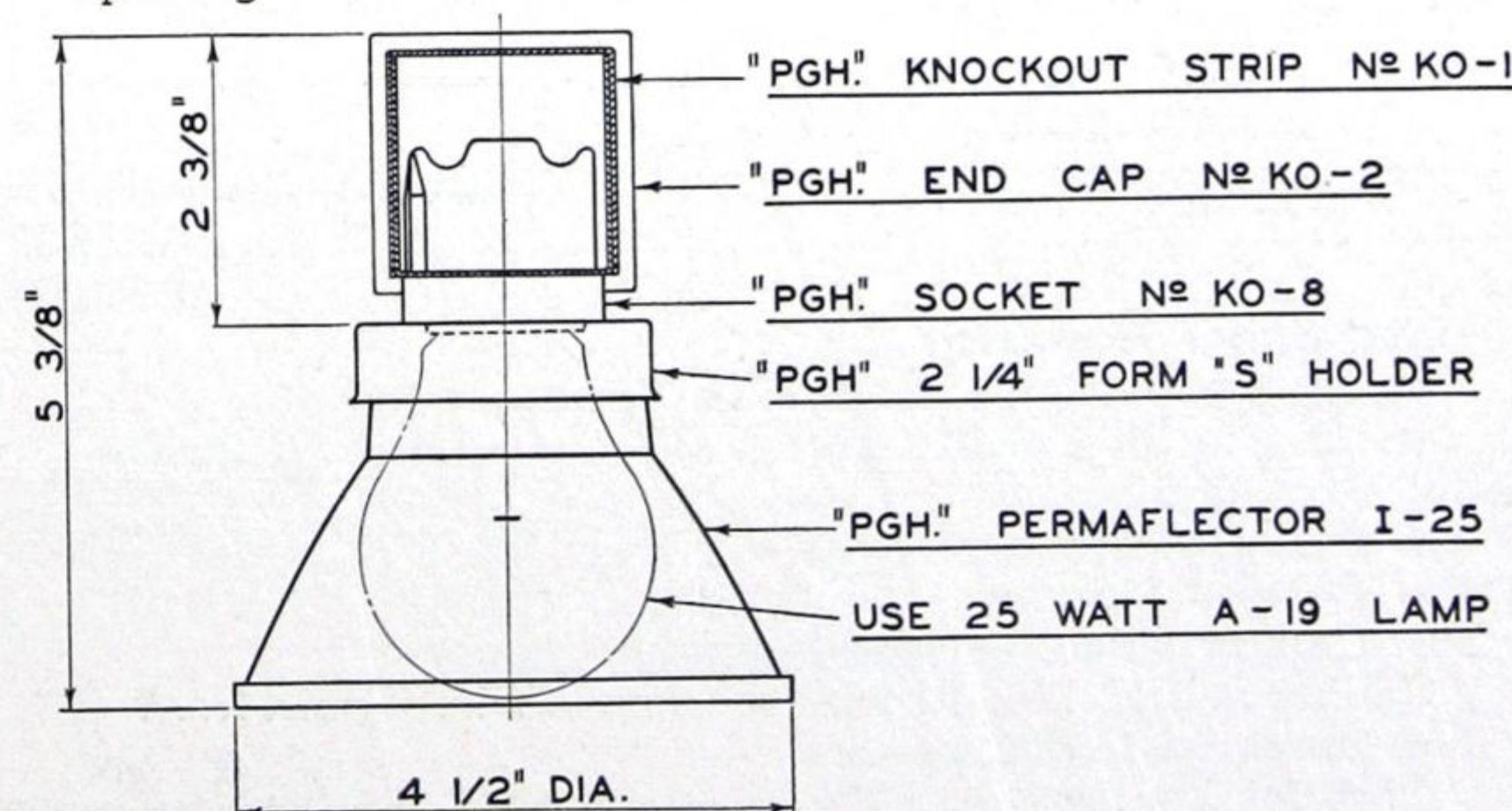
Weight, Approx. 22½ lbs.

Retail Price, Each.....\$2.15

CodeEYTUFITU

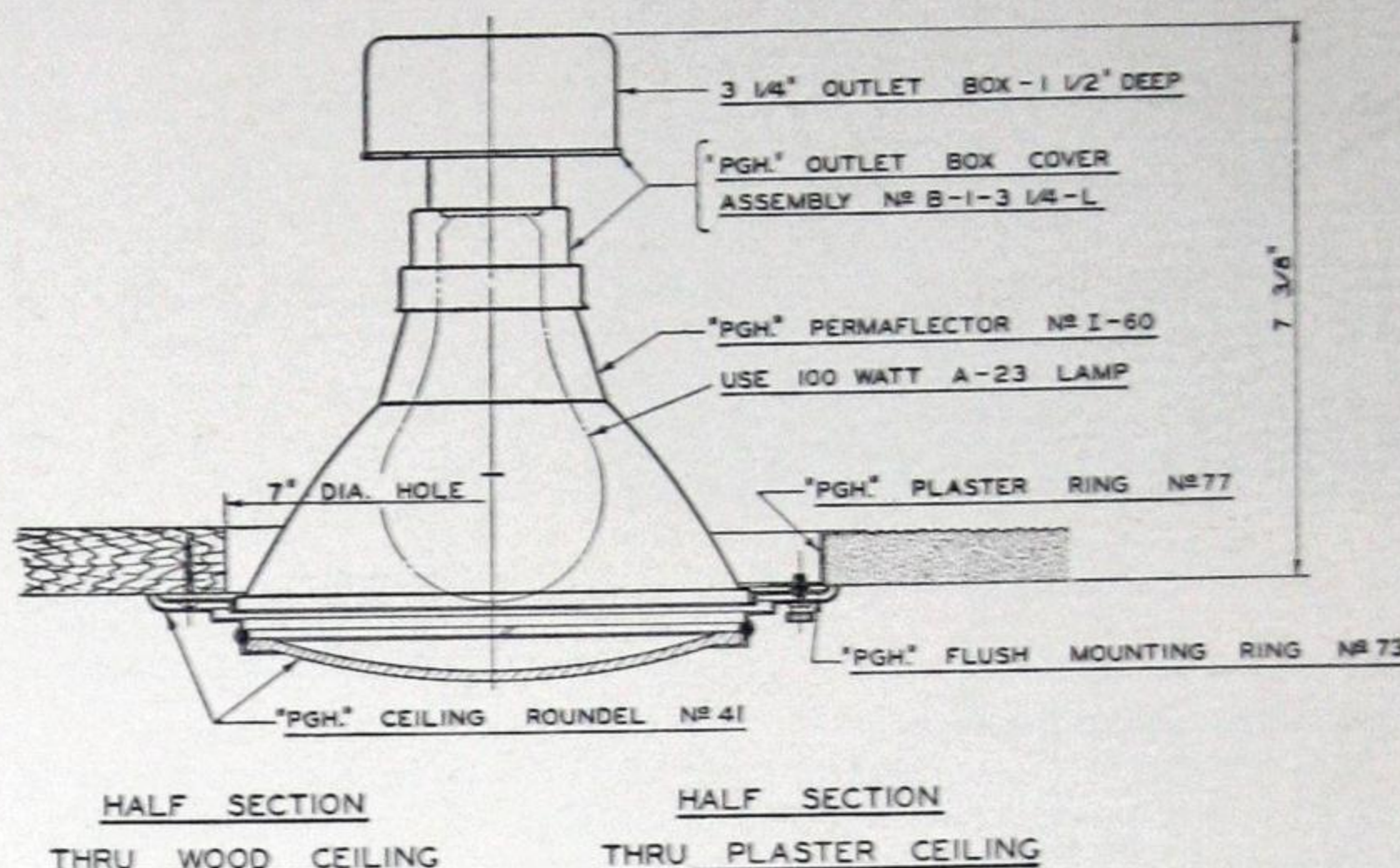
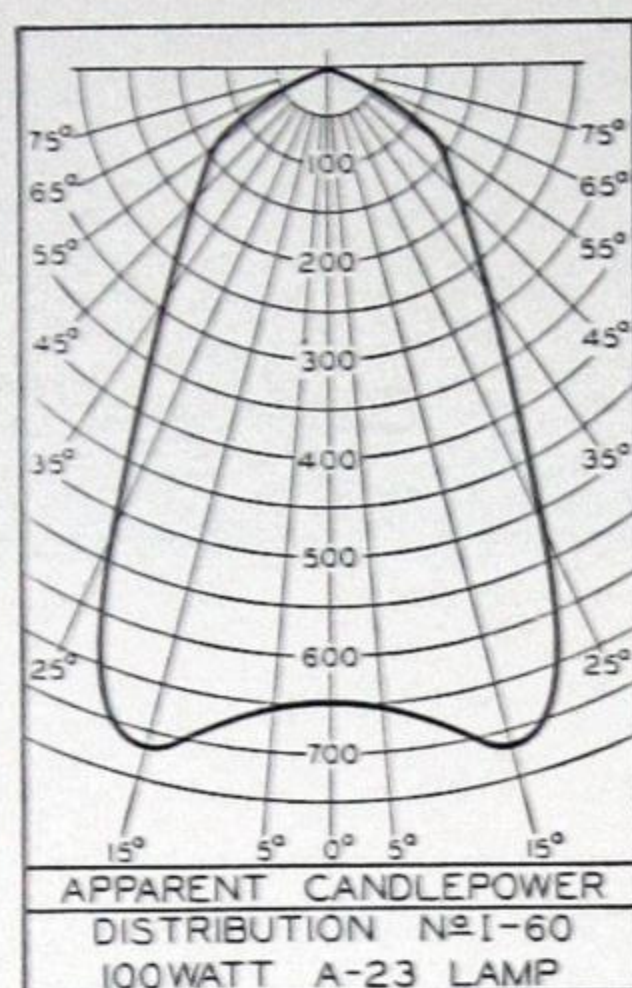
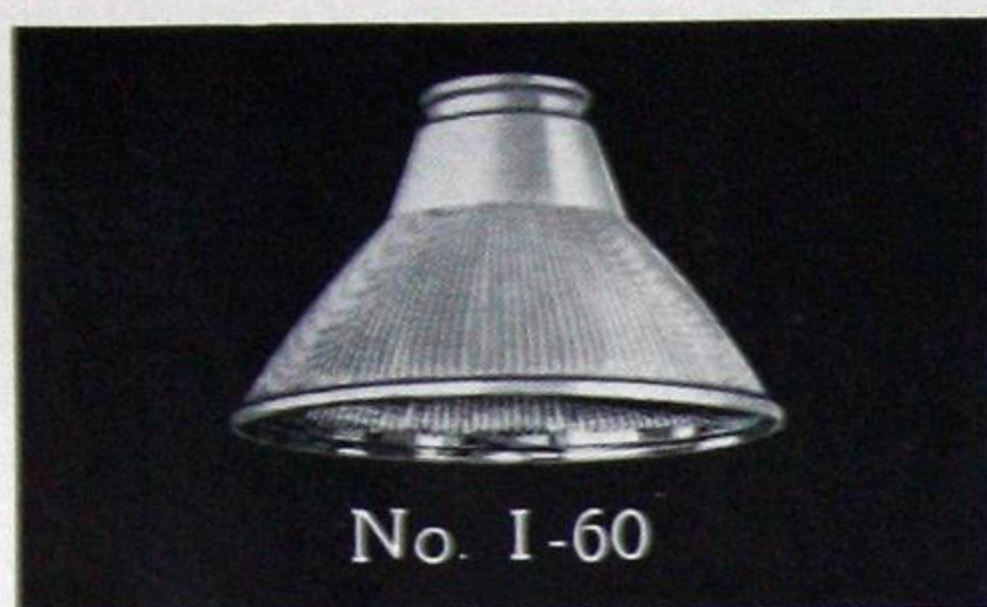
Ceiling Space Required:

- Space Above Ceiling Line—5½ inches.
- Opening to be Cut in Ceiling, Circular—Diam., 4¾ inches.



No. I-25 External Mounting

PERMAFLECTOR NO. I-60 SERIES



Application—A good indirect cove lighting reflector. Also may be recessed in ceiling. It is supplied with No. WF-100 Interior Flood and Floodlight No. FLC-100.

Spacings on Centers:

For uniform illumination, should not exceed two-thirds the height of bottom of reflector above work plane.

Minimum Spacings: for

Mounting on Conduit No. 1 or No. 12—7 1/2 inches on centers.
Mounting on Knockout Strip No. KO-1—9 inches on centers.

Dimensions:

Height Permalector No. I-60—4 1/8 inches.
Bottom Opening Circular—Diameter, 6 3/4 inches.

Lamp Size: 60 Watt A-19; 75 Watt A-21; 100 Watt A-23.

PERMAFLECTOR NO. I-60

Standard Quantity—10 **Weight, Approx.** 9 1/2 lbs.
Retail Price, Each \$2.00
Code EYESIX

Additional Equipment—for use with No. I-60.

Holder:

- For Grooved Porcelain Socket—Use
 - 2 1/4" Form "SR" Holder for 60 Watt A-19 Lamp.
 - 2 1/4" Form "LR" Holder for 100 Watt A-23 Lamp.
- For Porcelain Socket No. 1 or No. KO-8—Use
 - 2 1/4" Form "S" Holder for 60 Watt A-19 Lamp.
 - 2 1/4" Form "SL" Holder for 75 Watt A-21 Lamp.
 - 2 1/4" Form "L" Holder for 100 Watt A-23 Lamp.

May Be Installed With: Outlet Box Cover Assembly No. B-1-3 1/4 or B-1-4 with 2 1/4" Form "S", "SL" or "L" Holder.

May Be Mounted On:

- Conduit No. 1 or Knockout Strip No. KO-1 with 2 1/4" Form "S", "SL" or "L" Holder.
- Conduit No. 12 with 2 1/4" Form "SR" or "LR" Holder.

For Colored Lighting: Use

Color-Lite No. 4-A or No. 4-ADB for external mounting.

For Louvered Lighting: Use

- Parallel Louver No. EM-77 for external mounting.
- Concentric Louver No. EM-77-C for external mounting.

COMBINATION NO. I-60-2

(For Recessed Installation)
(Use 100 Watt A-23 Lamp)

Consists of:

- Permalector No. I-60.
- Outlet Box Cover Assembly No. B-1-3 1/4-L.
- Flush Mounting Ring No. 73.

Standard Quantity—10 **Weight, Approx.** 17 lbs.
Retail Price, Each \$3.08
Code EYSITU

Ceiling Space Required:

- Space Above Ceiling Line—7 3/8 inches.
- Opening to be Cut in Ceiling, Circular—Diam., 7 inches.

Additional Equipment—for use with No. I-60-2.

- For Plaster Ceiling—Use Plaster Ring No. 77.
- For Colored Lighting—Use Color-Lite No. 41 or No. 41-DB.
- For Ceiling Roundel (Not Hinged)—Use Ceiling Roundel No. 41 with or without Wire Guard No. WG-4.
- For Louvered Lighting—Use Parallel Louver No. FM-77.
- Concentric Louver No. FM-77-C.

No. I-60-2 Recessed in Ceiling with Ceiling Roundel No. 41

COMBINATION NO. I-60-4

(Hinged Ceiling Roundel Installation)
(Use 100 Watt A-23 Lamp)

Consists of:

- Permalector No. I-60.
- Outlet Box Cover Assembly No. B-1-3 1/4-L.
- Hinged Ceiling Roundel No. 4-B.

Standard Quantity—10 **Weight, Approx.** 30 lbs.
Retail Price, Each \$5.70
Code EYSIFO

Ceiling Space Required:

- Space Above Ceiling Line—7 3/8 inches.
- Opening to be Cut in Ceiling, Circular—Diam., 7 3/8 inches.

Additional Equipment—for use with No. I-60-4.

- For Plaster Ceiling—Use Plaster Ring No. 4-B.
- For Protection of Roundel—Use Wire Guard No. WG-4.

COMBINATION NO. I-60-5

(Hinged Concentric Louver Installation)
(Use 100 Watt A-23 Lamp)

Consists of:

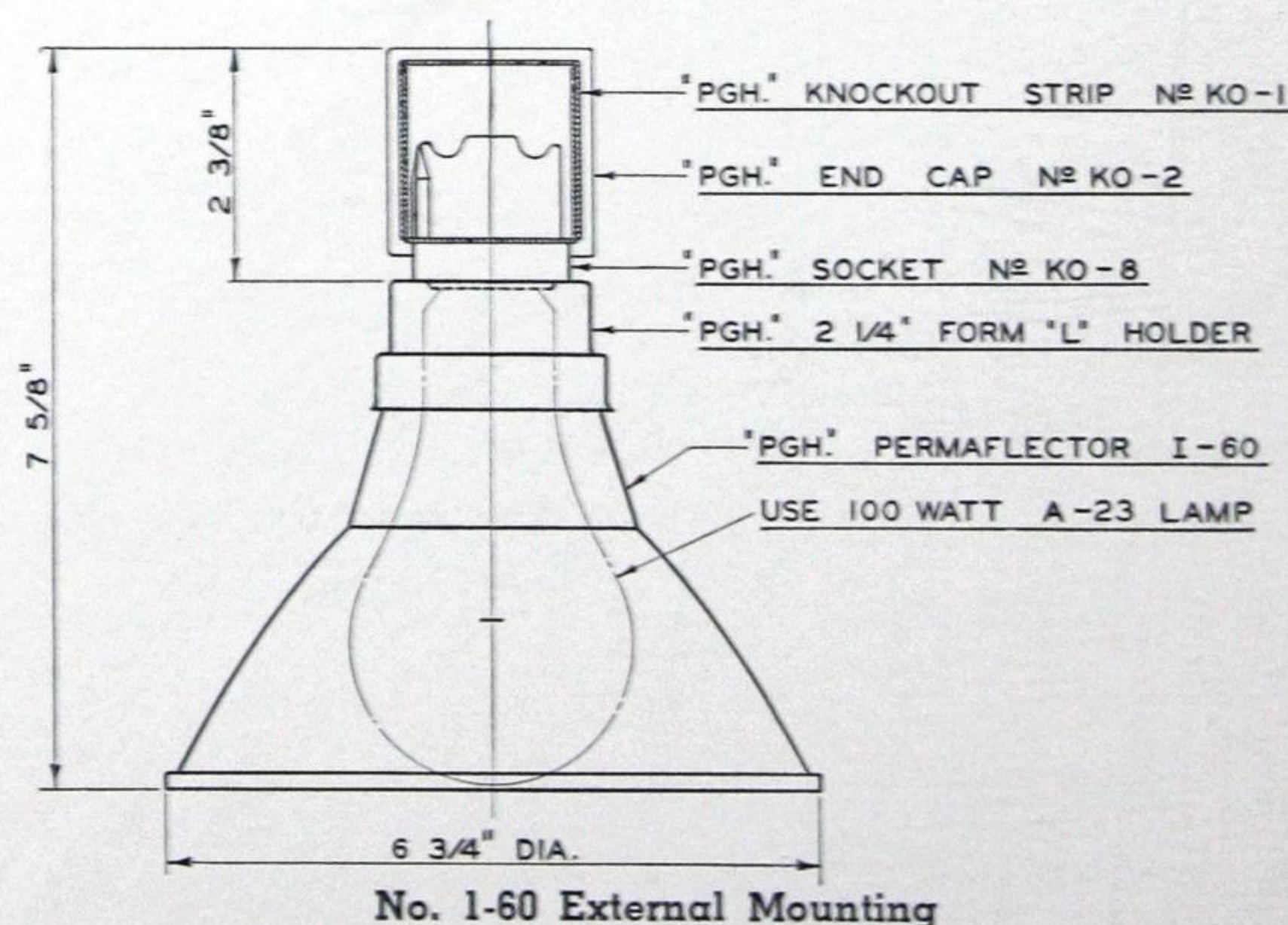
- Permalector No. I-60.
- Outlet Box Cover Assembly No. B-1-3 1/4-L.
- Hinged Concentric Louver No. 4-B.

Standard Quantity—10 **Weight, Approx.** 26 lbs.
Retail Price, Each \$5.70
Code EYSIFI

Ceiling Space Required—Same as for I-60-4.

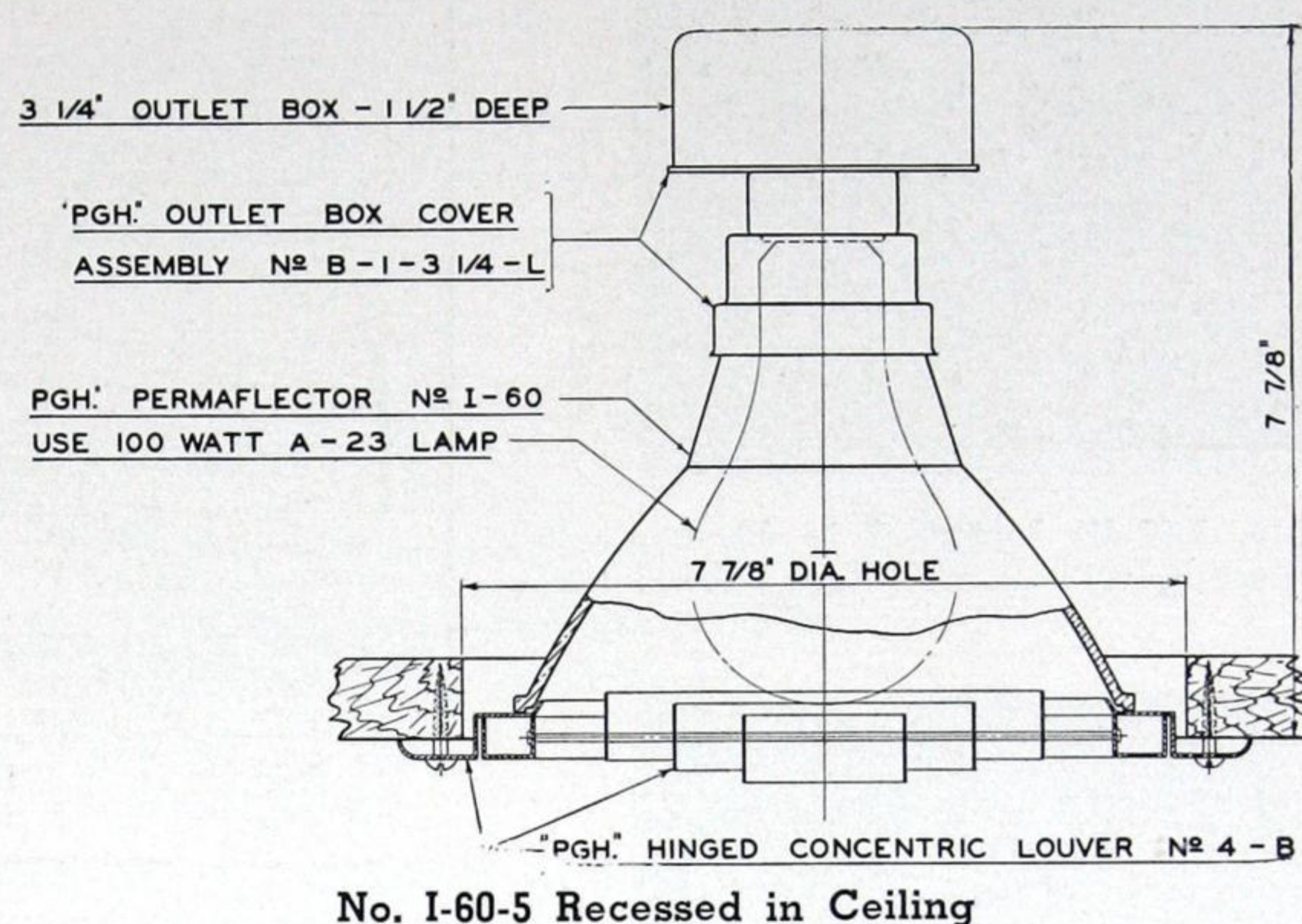
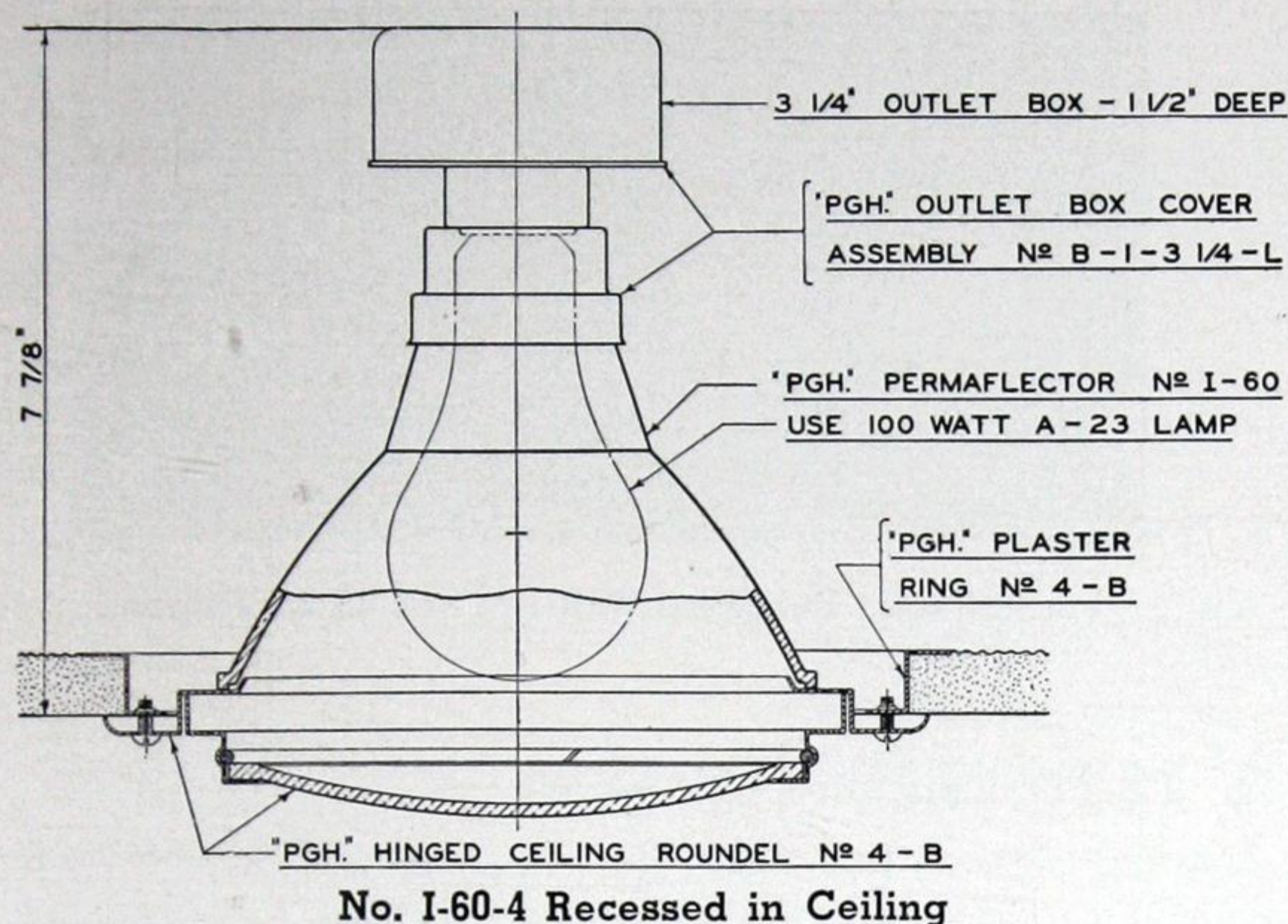
Additional Equipment—for use with I-60-5.

- For Plaster Ceiling—Use Plaster Ring No. 4-B.



No. I-60 External Mounting

PERMAFLECTOR NO. I-60 SERIES



ENCLOSED COMBINATIONS

(For Recessed Installations)
(Using 100 Watt A-23 Lamps)

Where mechanical protection of the recessed Permaflexor is necessary the addition of a spun aluminum housing ac-

complishes the object. We list and illustrate below our line of fully enclosed units for Permaflexor No. I-60.

COMBINATION NO. I-60-7

(With Hinged Ceiling Roundel)

Consists of:

- Permaflexor No. I-60.
- Spun Aluminum Housing.
- Porcelain Socket No. 1.
- Holder
- 4" Octagonal Outlet Box, 1 5/8 inches deep.
- Hinged Ceiling Roundel No. 4-B.

Standard Quantity—1

Weight, Approx. 7 lbs.

Retail Price, Each\$9.75

CodeEYSISET

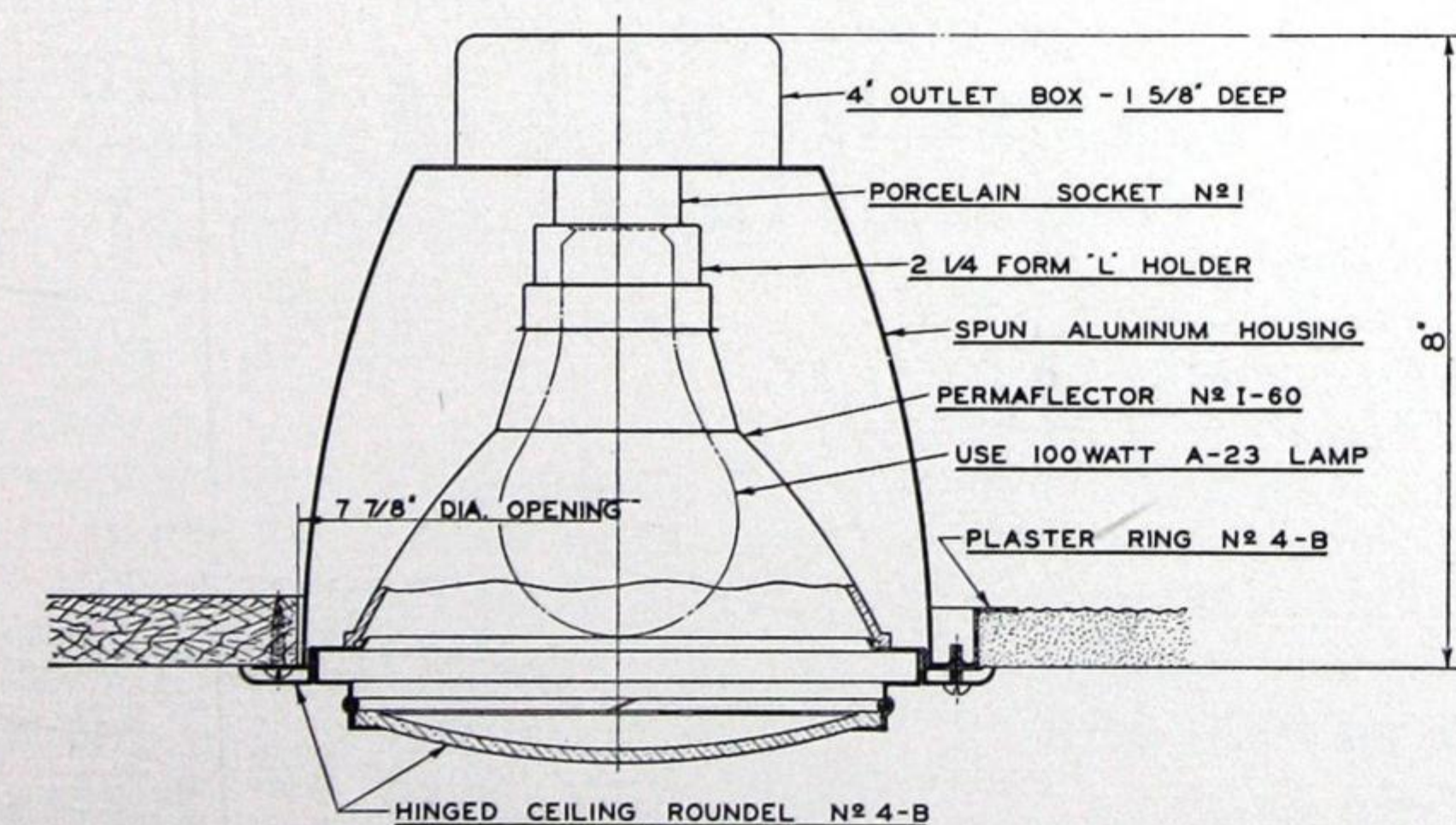
Ceiling Space Required:

- Space Above Ceiling Line—8 inches.
- Opening to be Cut in Ceiling, Circular—Diam., 7 7/8 inches.

Additional Equipment—for use with No. I-60-7.

For Plaster Ceiling—Use Plaster Ring No. 4-B.

For Protection of Roundel—Use Wire Guard No. WG-4.



HALF SECTION
THRU WOOD CEILING

HALF SECTION
THRU PLASTER CEILING

No. I-60-7 Recessed in Ceiling

COMBINATION NO. I-60-8

(With Hinged Concentric Louver)

Consists of:

- Permaflexor No. I-60.
- Spun Aluminum Housing.
- Porcelain Socket No. 1.
- Holder
- 4" Octagonal Outlet Box, 1 5/8 inches deep.
- Hinged Concentric Louver No. 4-B.

Standard Quantity—1

Weight, Approx. 6 1/2 lbs.

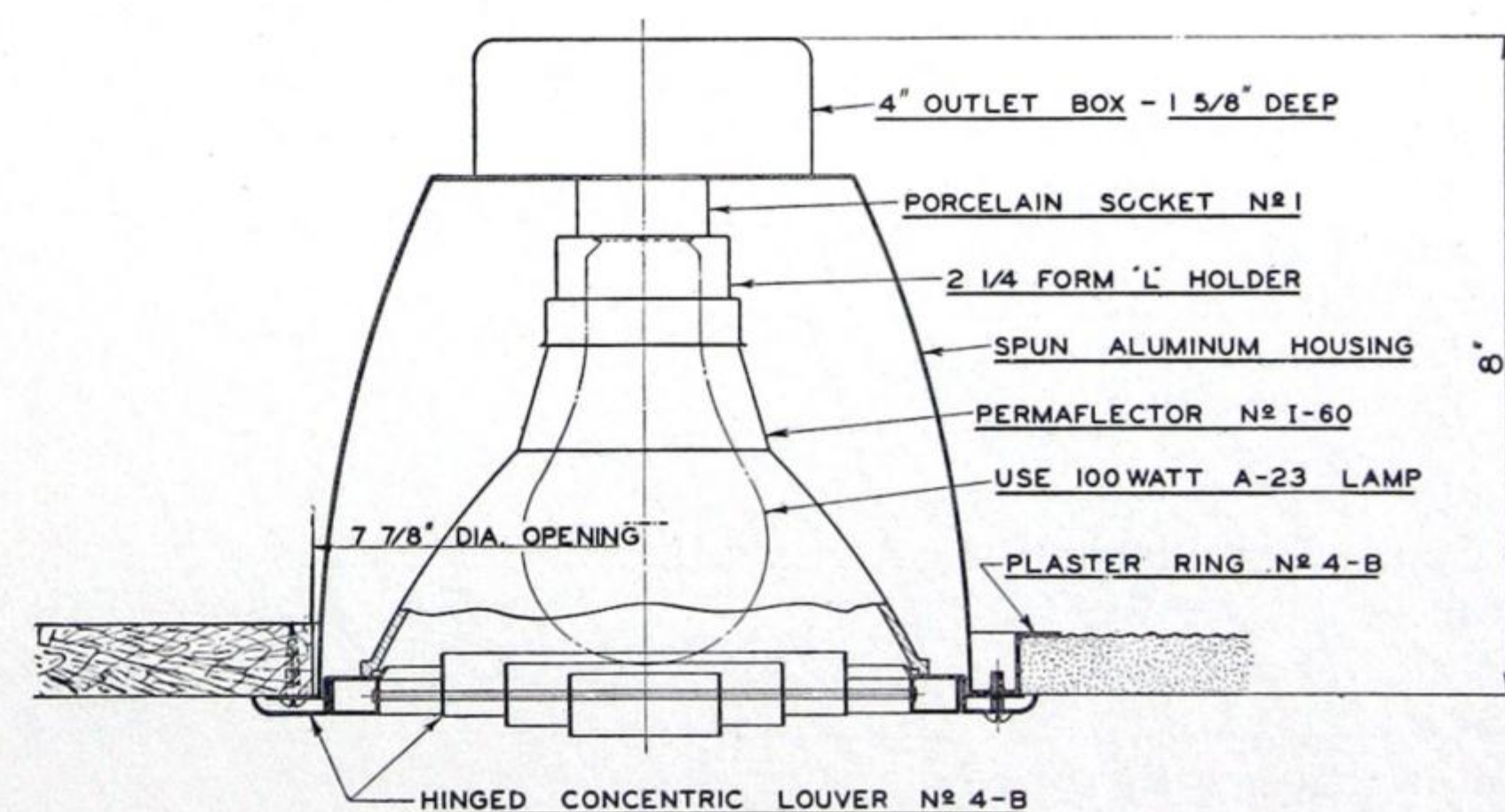
Retail Price, Each\$9.75

CodeEYSIAT

Ceiling Space Required—Same as for No. I-60-7.

Additional Equipment—for use with No. I-60-8.

For Plaster Ceiling—Use Plaster Ring No. 4-B.

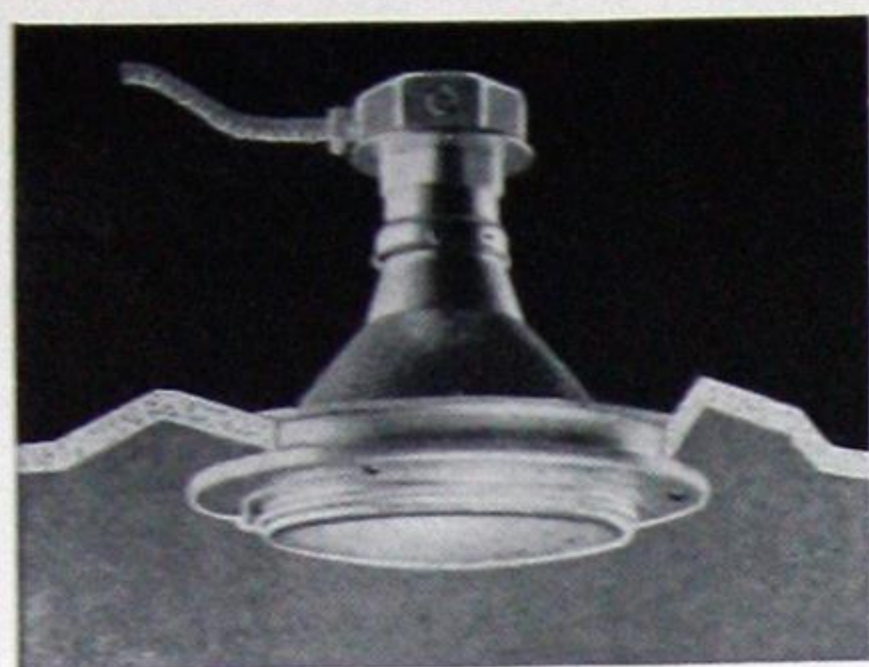


HALF SECTION
THRU WOOD CEILING

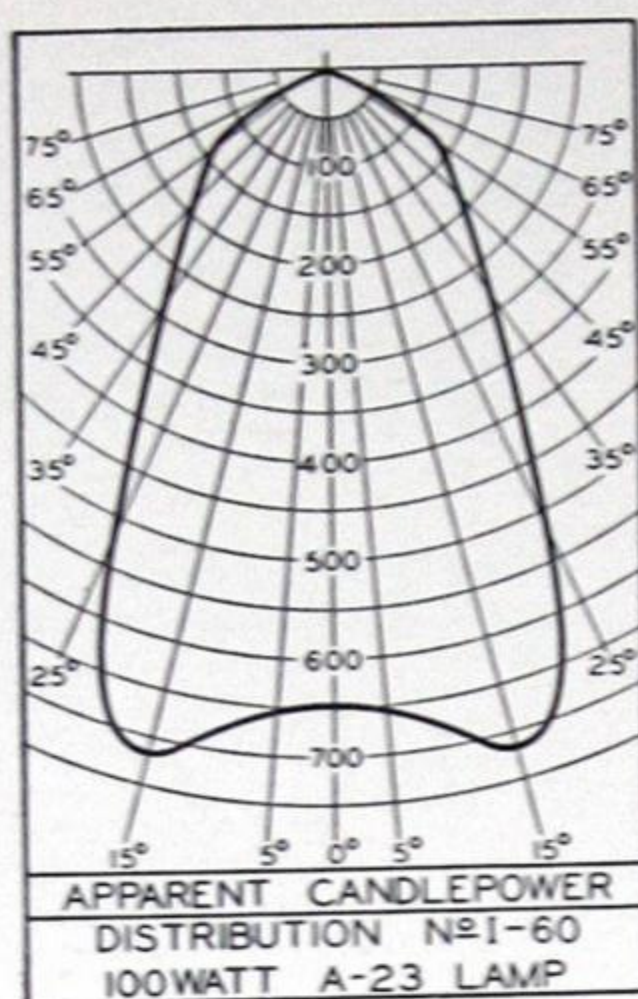
HALF SECTION
THRU PLASTER CEILING

No. I-60-8 Recessed in Ceiling.

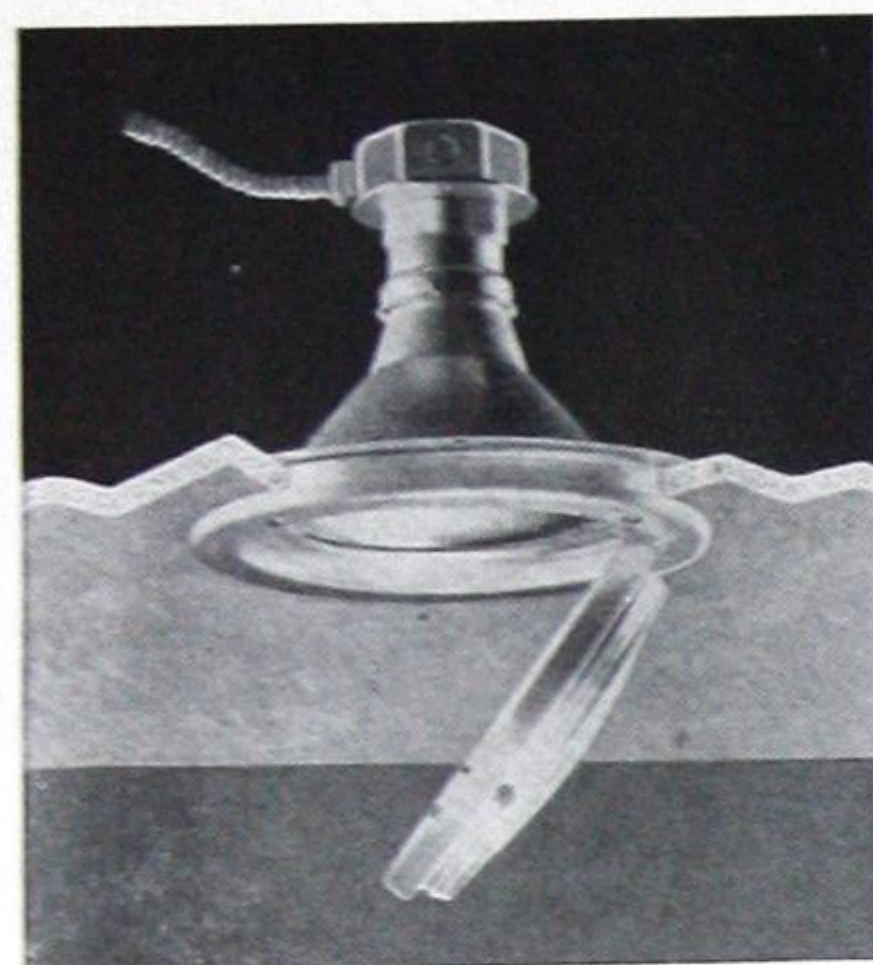
PERMAFLECTOR RECESSED LIGHTING UNITS



No. I-60-4S Installed in Plaster Ceiling with Plaster Ring No. 4-B



Permaflexor Recessed Unit No. I-60-4S as shipped



Roundel opened for lamp service and cleaning

FOR RESIDENCE KITCHENS

The trend in residence lighting design has been pointing steadily away from the inefficient decorative style of fixture toward modern, efficient, functional lighting based upon the seeing requirements of household tasks and recreational activities. Indicative of this trend is the increasing popularity of Permaflexor Recessed Lighting Units for use in kitchens, recreation rooms, entranceways and similar locations. Their built-in feature, permanent efficiency, glareless illumination, ease of maintenance and modern appearance are a few of the appealing advantages that are winning the approval of rational home buyers and builders everywhere.

Permaflexor Recessed Combination Units are of a special design created for use in residence kitchens to be recessed in the ceiling above working areas such as the stove, sink and table. They provide higher levels of illumination where the tasks demand easier, quicker seeing without glare and fatigue.

COMBINATION NO. I-60-4S

(Hinged Ceiling Roundel Installation)
(Use 100 Watt A-23 Lamp)

Consists of:

- Permaflexor No. I-60.
- Outlet Box Cover Assembly No. B-1-3¼-L.
- 6½" Dia. Stippled Glass Roundel.
- Spun Aluminum Hinged Frames, Satin Finish.

Standard Quantity—10 Weight, Approx. 30 lbs.

Retail Price, Each \$6.30

Code ISIFS

Ceiling Space Required:

- Space Above Ceiling Line—7⅞ inches.
- Opening to be Cut in Ceiling, Circular—Diam., 7⅞ inches.

Additional Equipment—for use with No. I-60-4S.

For Plaster Ceiling—Use Plaster Ring No. 4-B.

COMBINATION NO. I-60-5S

(Hinged Concentric Louver Installation)
(Use 100 Watt A-23 Lamp)

Consists of:

- Permaflexor No. I-60.
- Outlet Box Cover Assembly No. B-1-3¼-L.
- Three Concentric Steel Vanes, Satin Finish.
- Spun Aluminum Hinged Frames, Satin Finish.

Standard Quantity—10 Weight, Approx. 26 lbs.

Retail Price, Each \$6.30

Code ISIFES

Ceiling Space Required—Same as for I-60-4S.

Additional Equipment—for use with No. I-60-4S.

For Plaster Ceiling—Use Plaster Ring No. 4-B.

ENCLOSED COMBINATIONS

(For Recessed Installations)
(Use 100 Watt A-23 Lamp)

Where mechanical protection of the recessed Permaflexor is necessary, the addition of a spun aluminum housing accomplishes the object. We list below our line of fully enclosed units for residence kitchen lighting.

COMBINATION NO. I-60-7S

(With Hinged Ceiling Roundel)

Consists of:

- Permaflexor No. I-60.
- Porcelain Socket No. 1.
- Spun Aluminum Housing.
- 4" Octagonal Outlet Box, 1⅝" Deep.
- 6½" Dia. Stippled Glass Roundel.
- Spun Aluminum Hinged Frames, Satin Finish.

Standard Quantity—1 Weight, Approx. 7 lbs.

Retail Price, Each \$10.35

Code ISISES

Ceiling Space Required:

- Space Above Ceiling Line—8 inches.
- Opening to be Cut in Ceiling, Circular—Diam., 7⅞ inches.

Additional Equipment—for use with No. I-60-7S.

For Plaster Ceiling—Use Plaster Ring No. 4-B.

COMBINATION NO. I-60-8S

(With Hinged Concentric Louver)

Consists of:

- Permaflexor No. I-60.
- Porcelain Socket No. 1.
- Spun Aluminum Housing.
- 4" Octagonal Outlet Box, 1⅝" Deep.
- Three Concentric Steel Vanes, Satin Finish.
- Spun Aluminum Hinged Frames, Satin Finish.

Standard Quantity—1 Weight, Approx. 6½ lbs.

Retail Price, Each \$10.35

Code ISIATES

Ceiling Space Required—Same as for No. I-60-7S.

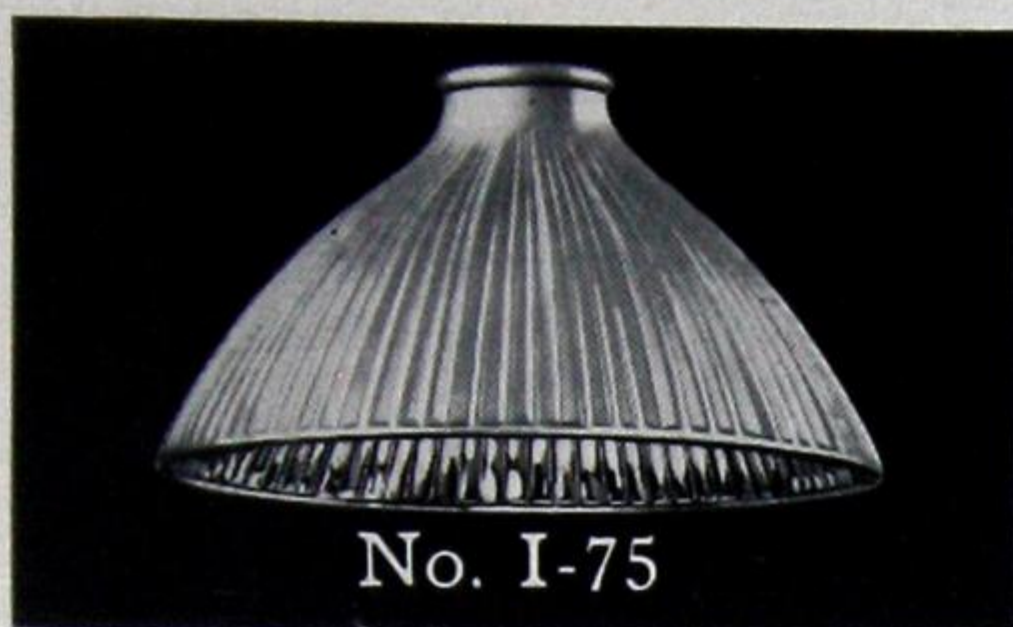
Additional Equipment—for use with No. I-60-8S.

For Plaster Ceiling—Use Plaster Ring No. 4-B.

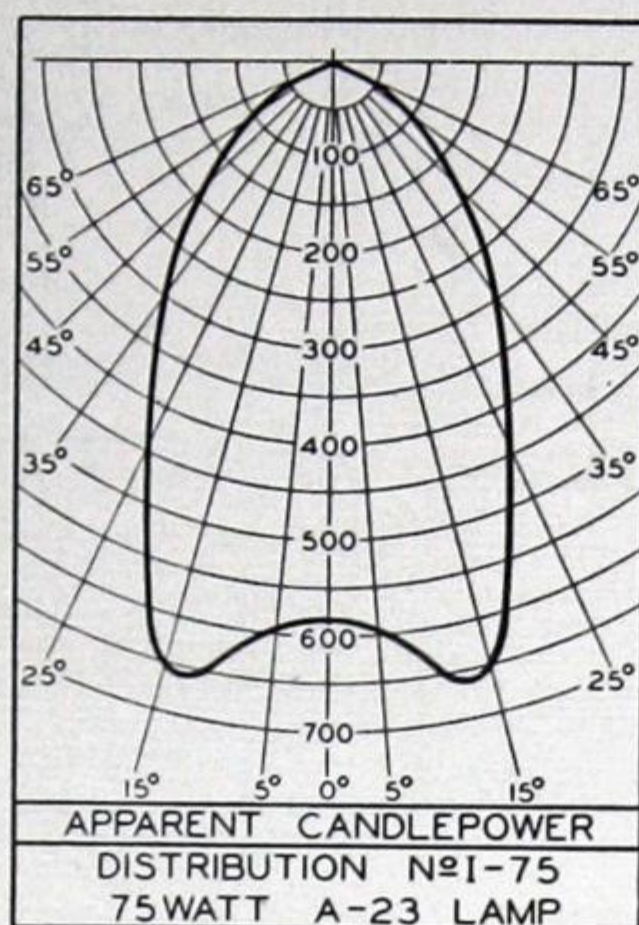


PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA

PERMAFLECTOR NO. I-75 SERIES



No. I-75



Application—Used primarily for direct lighting, exposed or recessed in ceiling.

Spacings on Centers:

For uniform illumination, should not exceed two-thirds the height of bottom of reflector above work plane.

Minimum Spacings:

Mounting on Conduit No. 1 or No. 12—9 inches on centers.

Mounting on Knockout Strip No. KO-1—9 inches on centers.

Dimensions:

Height Permalector No. I-75—4 3/4 inches.

Bottom Opening Circular—Diameter, 8 3/8 inches.

Lamp Size—60 Watt A-19; 75 Watt A-21; 100 Watt A-23.

PERMAFLECTOR NO. I-75

Standard Quantity—10

Weight, Approx. 14 1/2 lbs.

Retail Price, Each.....\$2.75

Code.....ISEVFI

Additional Equipment—for use with No. I-75.

Holder:

With Grooved Porcelain Socket—Use

2 1/4" Form "SR" Holder for 60 Watt A-19 Lamp.

2 1/4" Form "LR" Holder for 100 Watt A-23 Lamp.

With Porcelain Sockets No. 1 or No. KO-8—Use

2 1/4" Form "S" Holder for 60 Watt A-19 Lamp.

2 1/4" Form "SL" Holder for 75 Watt A-21 Lamp.

2 1/4" Form "L" Holder for 100 Watt A-23 Lamp.

May Be Installed With: Outlet Box Cover Assembly No.

B-1-3/4 or B-1-4 with 2 1/4" Form "S," "SL" or "L" Holder.

May Be Mounted On:

Conduit No. 1 or Knockout Strip No. KO-1 with 2 1/4" Form "S," "SL" or "L" Holder.

Conduit No. 12 with 2 1/4" Form "SR" or "LR" Holder.

For Colored Lighting: Use

Color-Lite No. 6 or No. 6-DB for external mounting.

For Louvered Lighting: Use

Parallel Louver No. EM-55 for external mounting.

Concentric Louver No. EM-55-C for external mounting.

COMBINATION NO. I-75-2

(For Recessed Installation)

(Use 100 Watt A-23 Lamp)

Consists of:

Permalector No. I-75.

Outlet Box Cover Assembly No. B-1-3/4-L.

Flush Mounting Ring No. 55.

Standard Quantity—10

Weight, Approx. 22 lbs.

Retail Price, Each.....\$3.87

Code.....ISEVFITU

Ceiling Space Required:

Space Above Ceiling Line—7 5/8 inches.

Opening to be Cut in Ceiling, Circular—Diam., 8 5/8 inches.

Additional Equipment—for use with No. I-75-2.

For Plaster Ceiling—Use Plaster Ring No. 55-A.

For Colored Lighting—Use Color-Lite No. 61 or No. 61-DB.

For Ceiling Roundel (Not Hinged)—Use

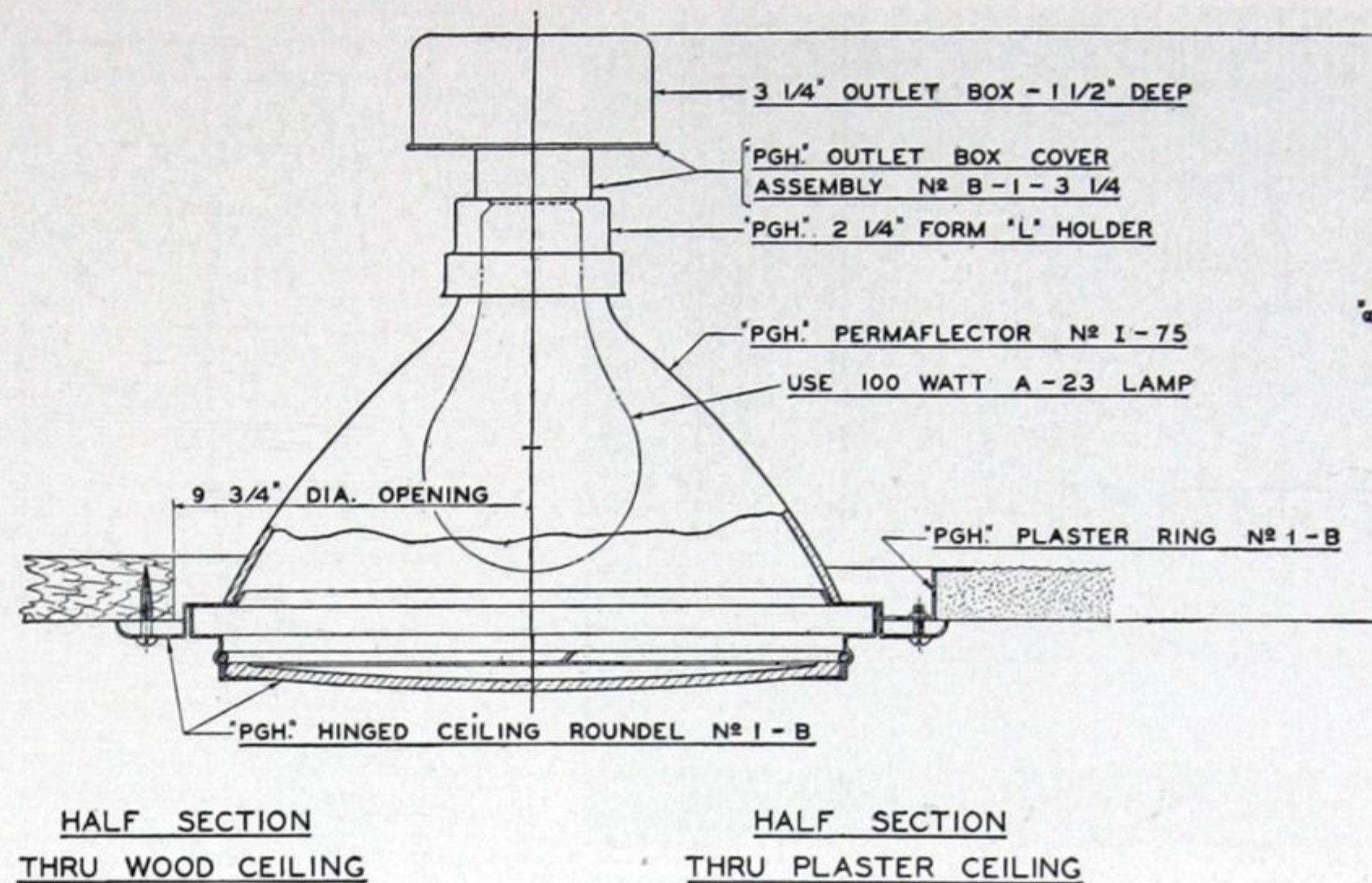
Ceiling Roundel No. 62 with or without Wire Guard No. WG-1.

For Louvered Lighting—Use

Parallel Louver No. FM-55.

Concentric Louver No. FM-55-C.

Egg Crate Louver No. FEC-100.



No. I-75-4 Recessed in Ceiling

COMBINATION NO. I-75-4

(Hinged Ceiling Roundel Installation)

(Use 100 Watt A-23 Lamp)

Consists of:

Permalector No. I-75.

Outlet Box Cover Assembly No. B-1-3/4-L.

Hinged Ceiling Roundel No. 7-B.

Standard Quantity—10

Weight, Approx. 40 lbs.

Retail Price, Each.....\$7.20

Code.....ISEVFIFO

Ceiling Space Required:

Space Above Ceiling Line—8 inches.

Opening to be Cut in Ceiling, Circular—Diam., 9 3/4 inches.

Additional Equipment—for use with No. I-75-4.

For Plaster Ceiling—Use Plaster Ring No. 1-B.

For Protection of Roundel—Use Wire Guard No. WG-1.

COMBINATION NO. I-75-5

(Hinged Concentric Louver Installation)

(Use 100 Watt A-23 Lamp)

Consists of:

Permalector No. I-75.

Outlet Box Cover Assembly No. B-1-3/4-L.

Hinged Concentric Louver No. 7-B.

Standard Quantity—10

Weight, Approx. 33 lbs.

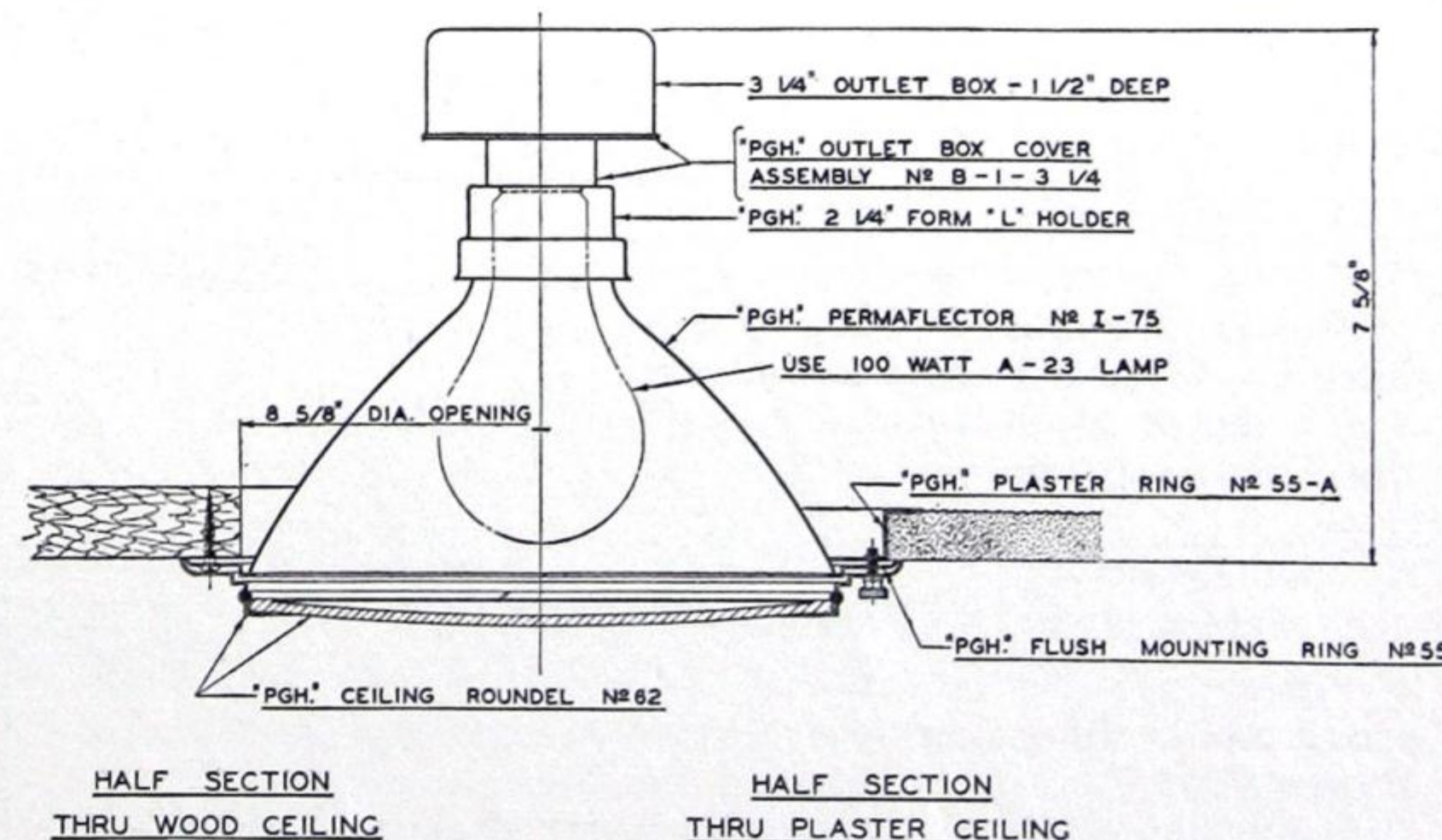
Retail Price, Each.....\$7.20

Code.....ISEVFIFI

Ceiling Space Required—Same as for No. I-75-4.

Additional Equipment—for use with No. I-75-5.

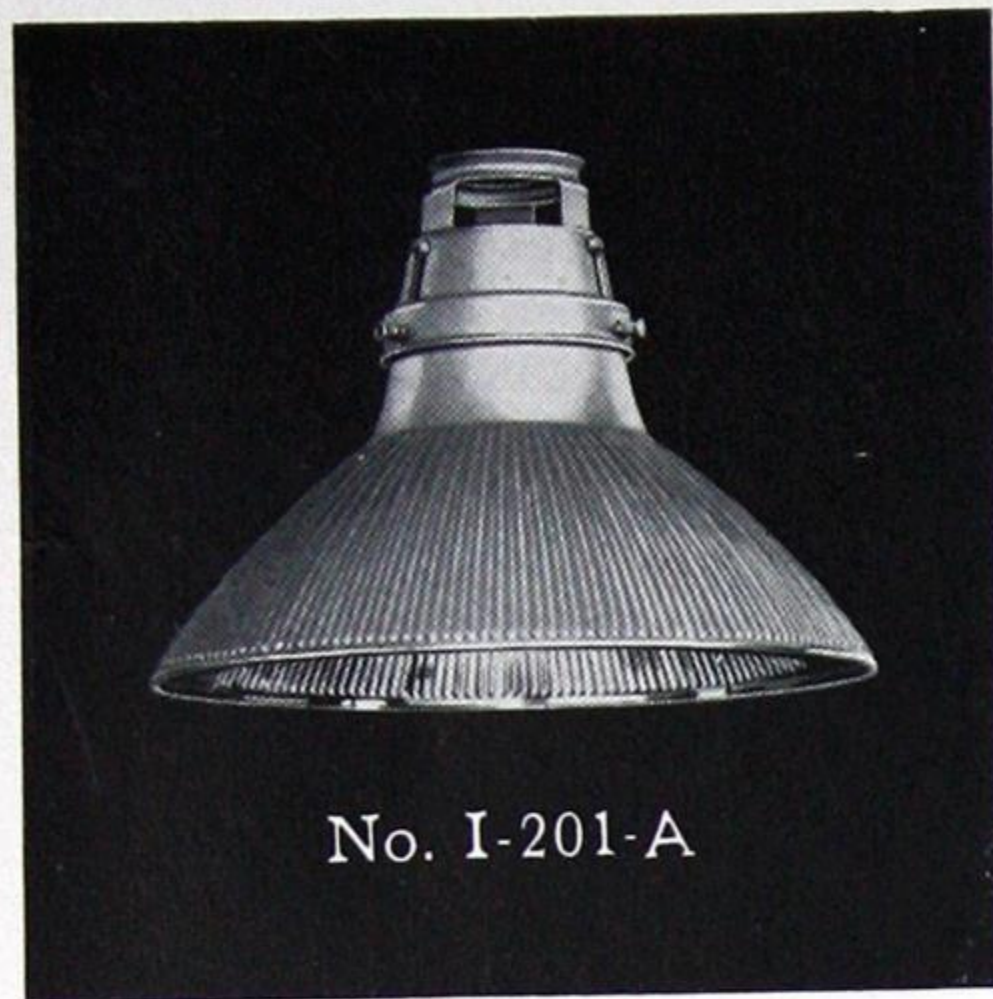
For Plaster Ceiling—Use Plaster Ring No. 1-B.



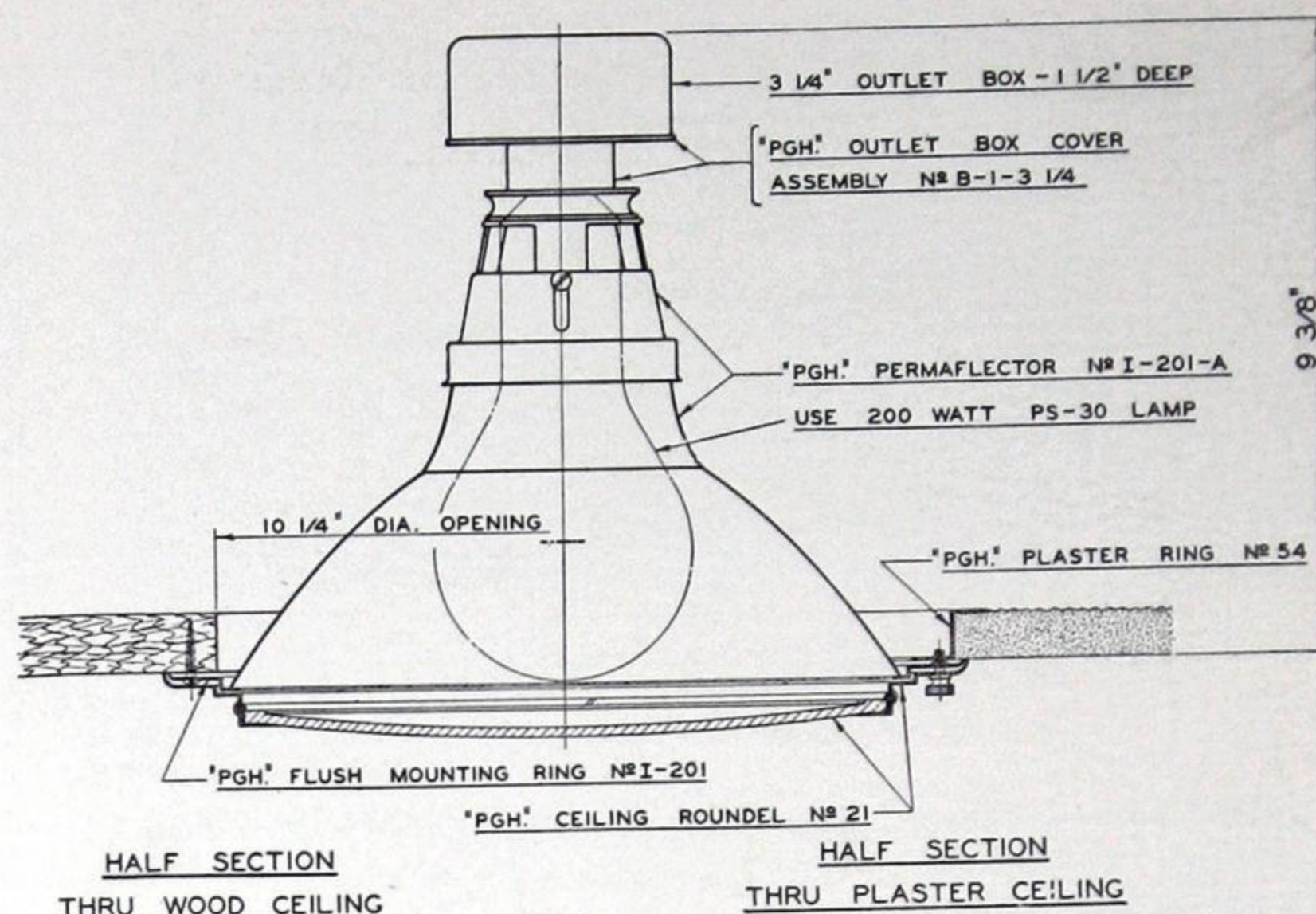
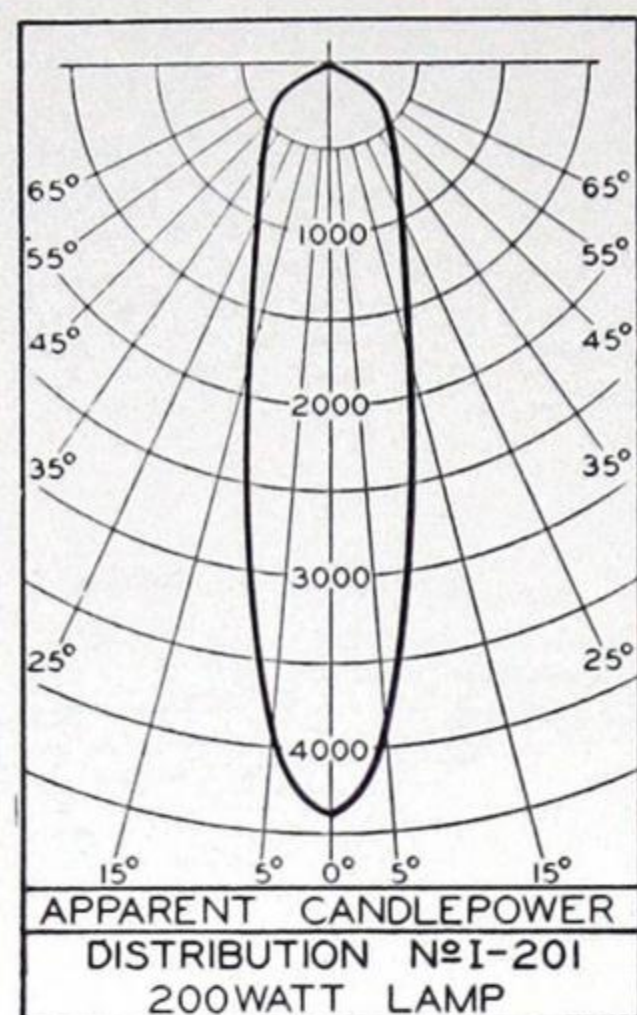
No. I-75-2 Recessed in Ceiling with Ceiling Roundel No. 62



PERMAFLECTOR NO. I-201 SERIES



No. I-201-A



No. I-201-2 Recessed in Ceiling with Ceiling Roundel No. 21

COMBINATION NO. I-201-2

(For Recessed Installation)

Consists of:

Permaflector No. I-201-A.
Outlet Box Cover Assembly No. B-1-3 1/4.
Flush Mounting Ring No. I-201.

Standard Quantity—10

Weight, Approx. 30 lbs.

Retail Price, Each.....\$5.60

CodeITUNTU

Ceiling Space Required:

Space Above Ceiling Line—9 3/8 inches (Adapter Extended).
Opening to be Cut in Ceiling, Circular—Diam., 10 1/4 inches.

Additional Equipment—for use with No. I-201-2.

For Plaster Ceiling—Use Plaster Ring No. 54.
For Colored Lighting—Use Color-Lite No. 21 or No. 21-DB.
For Ceiling Roundel (Not Hinged)—Use Ceiling Roundel No. 21 with or without Wire Guard No. WG-6.
For Louvered Lighting—Use Parallel Louver No. FM-54.
Concentric Louver No. FM-54-C.
Egg Crate Louver No. FEC-200.

COMBINATION NO. I-201-4

(Hinged Ceiling Roundel Installation)

Consists of:

Permaflector No. I-201-A.
Outlet Box Cover Assembly No. B-1-3 1/4.
Hinged Ceiling Roundel No. 8-B.

Standard Quantity—10

Weight, Approx. 56 lbs.

Retail Price, Each.....\$9.95

CodeITUNFO

Ceiling Space Required:

Space Above Ceiling Line—9 3/4 inches (Adapter Extended).
Opening to be Cut in Ceiling, Circular—Diam., 12 1/2 inches.

Additional Equipment—for use with No. I-201-4.

For Plaster Ceiling—Use Plaster Ring No. 8-B.
For Protection of Roundel—Use Wire Guard No. WG-8.

COMBINATION NO. I-201-5

(Hinged Concentric Louver Installation)

Consists of:

Permaflector No. I-201-A.
Outlet Box Cover Assembly No. B-1-3 1/4.
Hinged Concentric Louver No. 8-B.

Standard Quantity—10

Weight, Approx. 42 lbs.

Retail Price, Each.....\$9.45

CodeITUNFI

Ceiling Space Required—Same as for No. I-201-4.

Additional Equipment—for use with No. I-201-5.
For Plaster Ceiling—Use Plaster Ring No. 8-B.

Application—This Permaflector is used with Flood WF-200. Excellent for recessing in ceiling, equipped with flush mounting ring and concentric louver or hinged ceiling roundel. Provides high intensity of illumination over restricted area.

Spacings on Centers:

For uniform illumination, should not exceed two-thirds of the height of bottom of reflector above work plane.

Minimum Spacings: for

Mounting on Conduit No. 1 or No. 12—10 1/2 inches on centers.
Mounting on Knockout Strip No. KO-1—12 inches on centers.

Dimensions:

Height with Adapter No. 1256 Extended—7 1/4 inches.
Height with Adapter No. 1256 Compressed—6 1/8 inches.
Height Permaflector No. I-201-GO—5 inches.
Bottom Opening Circular—Diameter, 9 7/8 inches.

Lamp Size—

200 Watt PS-30, Adapter Extended.
150 Watt A-25, Adapter Compressed.

PERMAFLECTOR NO. I-201-A

Consists of:

Permaflector No. I-201-GO and Adapter No. 1256.

Standard Quantity—10

Weight, Approx. 21 lbs.

Retail Price, Each.....\$4.50

CodeITUHUNWON

Additional Equipment—for use with No. I-201-A.

May Be Installed With:

Outlet Box Cover Assembly No. B-1-3 1/4 or B-1-4.

May Be Mounted On:

Conduit No. 1 or Knockout Strip No. KO-1.

For Colored Lighting: Use

Color-Lite No. 2 or No. 2-DB for external mounting.

For Louvered Lighting: Use

Parallel Louver No. EM-54 for external mounting.
Concentric Louver No. EM-54-C for external mounting.

PERMAFLECTOR NO. I-201-R

Consists of:

Permaflector No. I-201-GO and Adapter No. 1256-R for use where grooved porcelain sockets are installed.

Standard Quantity—10

Weight, Approx. 21 lbs.

Retail Price, Each.....\$4.50

CodeITUHUNONER

Additional Equipment—for use with No. I-201-R.

May Be Mounted On—Conduit No. 12.

For Colored Lighting—Same as for No. I-201-A.

For Louvered Lighting—Same as for No. I-201-A.

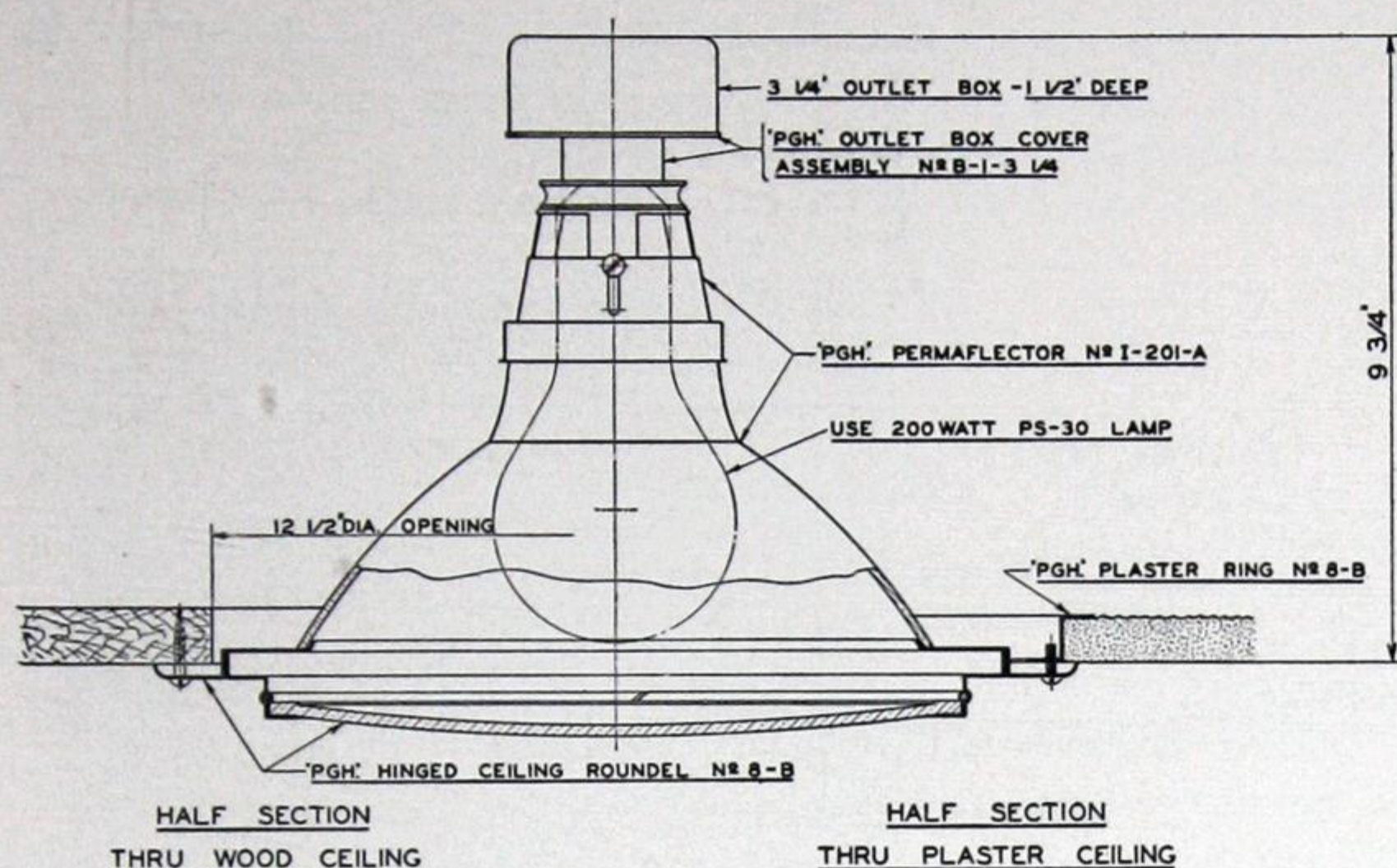
Recessed Lighting

Many merchants favor a clear space free from suspended lighting fixtures. Indirect lighting equipment concealed in or mounted on the store furniture accomplishes this object. Where indirect illumination is not applicable, Permaflectors recessed in the ceiling concealed by glass or louvers are very popular.

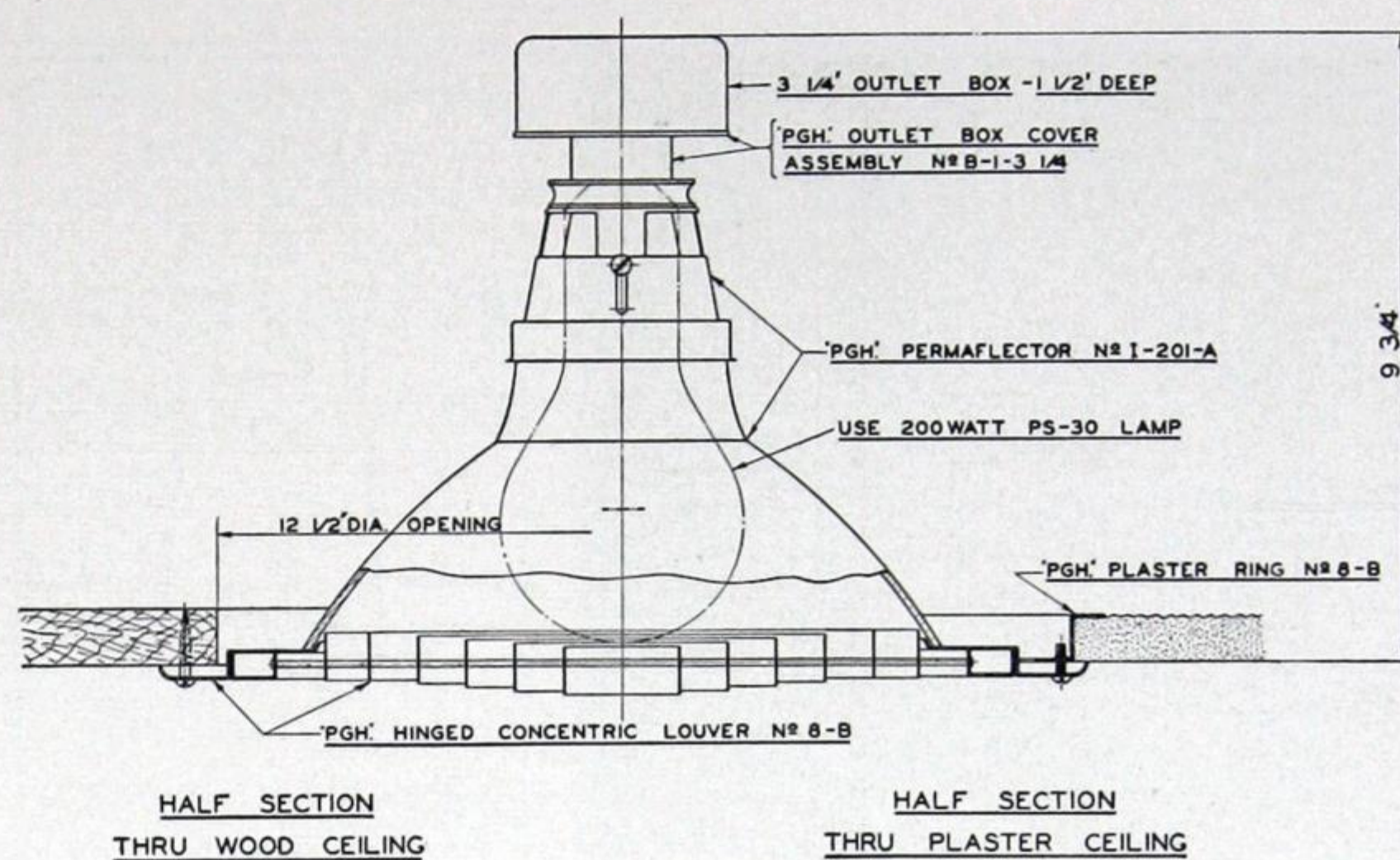


PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA

PERMAFLECTOR NO. I-201 SERIES



No. I-201-4 Recessed in Ceiling



No. I-201-5 Recessed in Ceiling

ENCLOSED COMBINATIONS

(For Recessed Installations)
(Use 200 Watt PS-30 Lamp)

Where mechanical protection of the recessed Permaflexor is necessary the addition of a spun aluminum housing ac-

complishes the object. We list and illustrate below our line of fully enclosed units for Permaflexor No. I-201-A.

COMBINATION NO. I-201-7

(Hinged Ceiling Roundel Installation)

Consists of:

- Permaflexor No. I-201-A.
- Spun Aluminum Housing.
- Porcelain Socket No. 1.
- 4" Octagonal Outlet Box, 1 5/8 inches deep.
- Hinged Ceiling Roundel No. 8-B.

Standard Quantity—1

Weight, Approx. 11 lbs.

Retail Price, Each.....\$16.25

CodeITUNSET

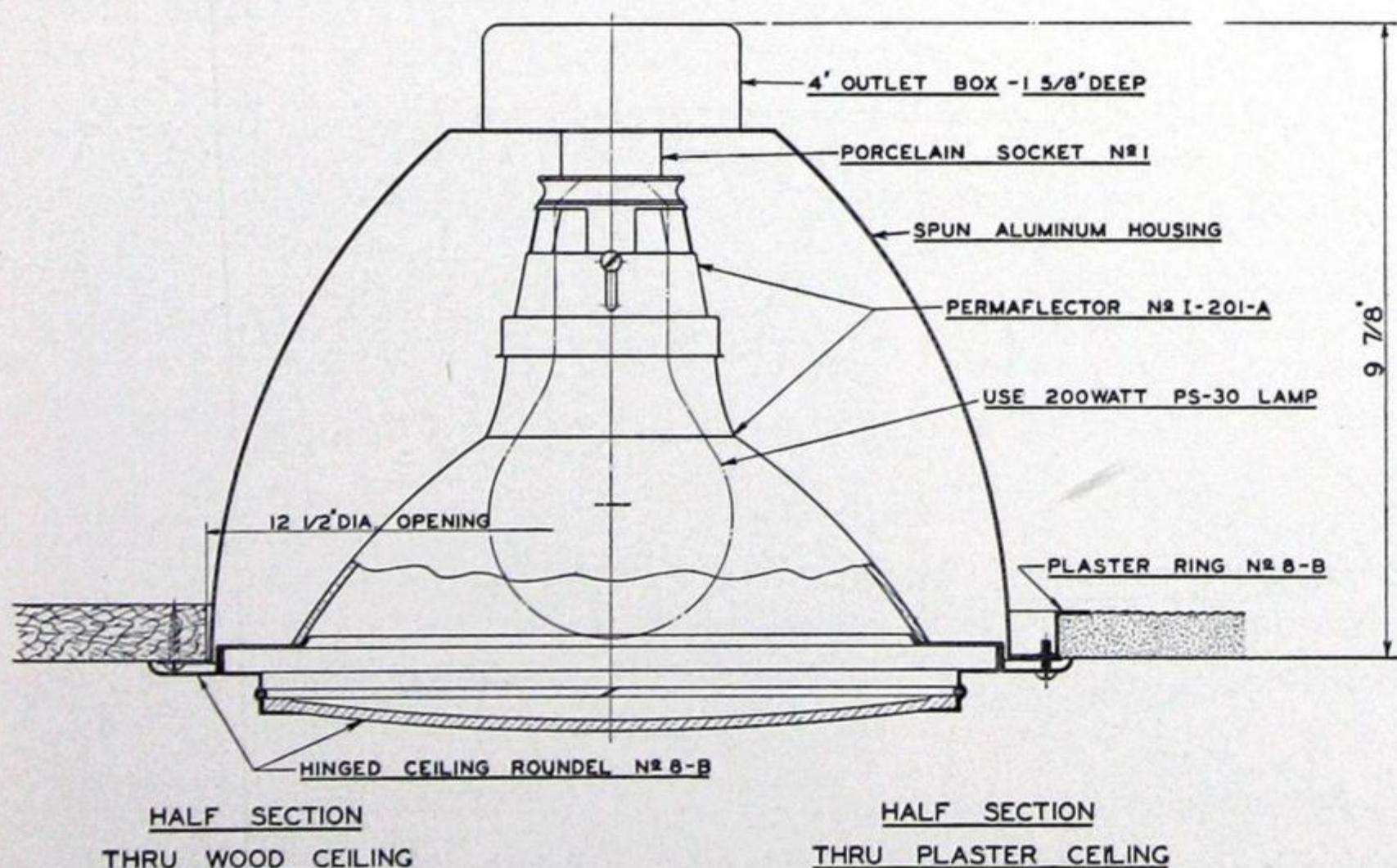
Ceiling Space Required:

- Space Above Ceiling Line—9 7/8 inches.
- Opening to be Cut in Ceiling, Circular—Diam., 12 1/2 inches.

Additional Equipment—for use with I-201-7.

For Plaster Ceiling—Use Plaster Ring No. 8-B.

For Protection of Roundel—Use Wire Guard No. WG-8.



No. I-201-7 Recessed in Ceiling

COMBINATION NO. I-201-8

(Hinged Concentric Louver Installation)

Consists of:

- Permaflexor No. I-201-A.
- Spun Aluminum Housing.
- Porcelain Socket No. 1.
- 4" Octagonal Outlet Box, 1 5/8 inches deep.
- Hinged Concentric Louver No. 8-B.

Standard Quantity—1

Weight, Approx. 10 lbs.

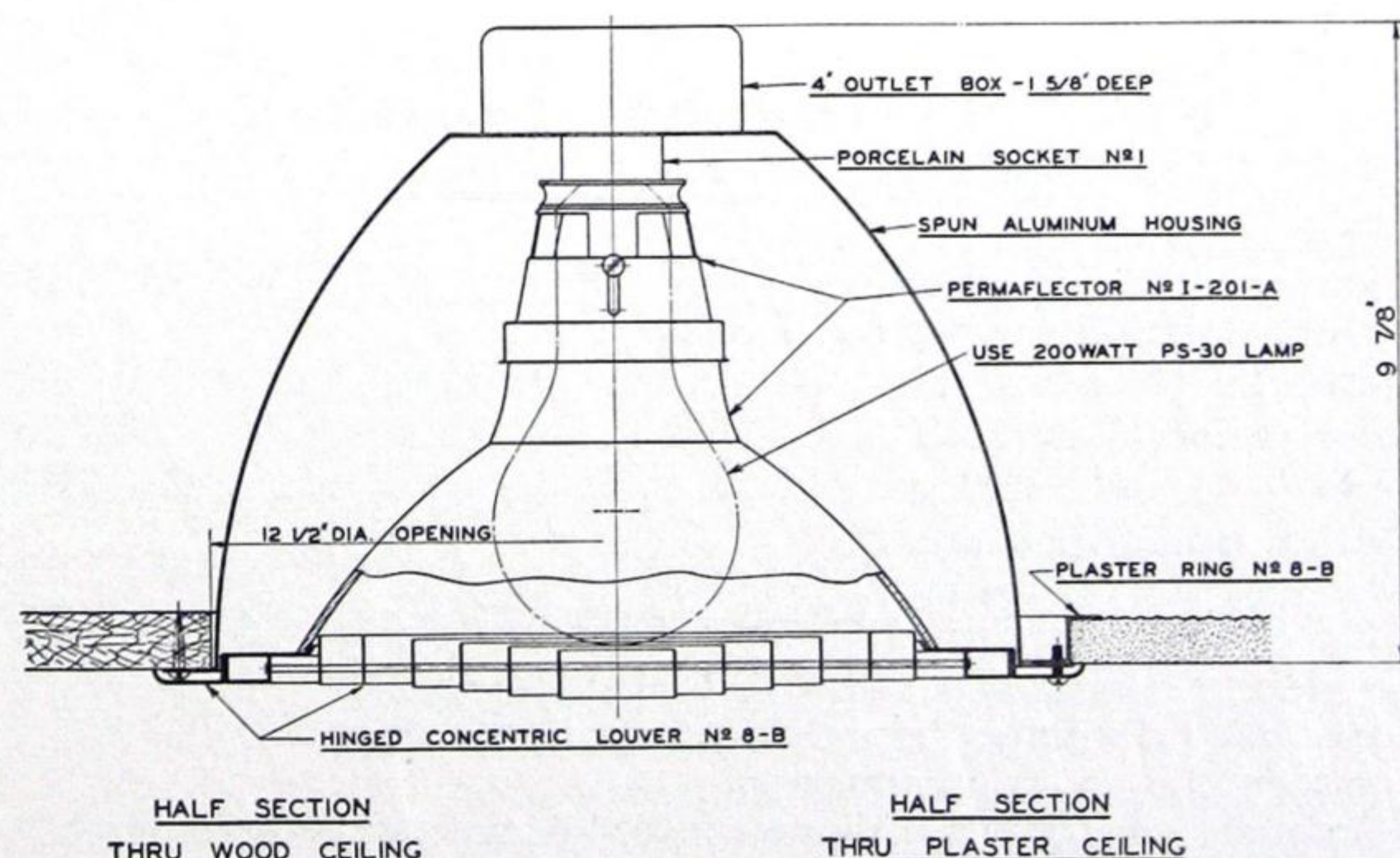
Retail Price, Each.....\$15.75

CodeITUNAT

Ceiling Space Required—Same as for No. I-201-7.

Additional Equipment—for use with No. I-201-8.

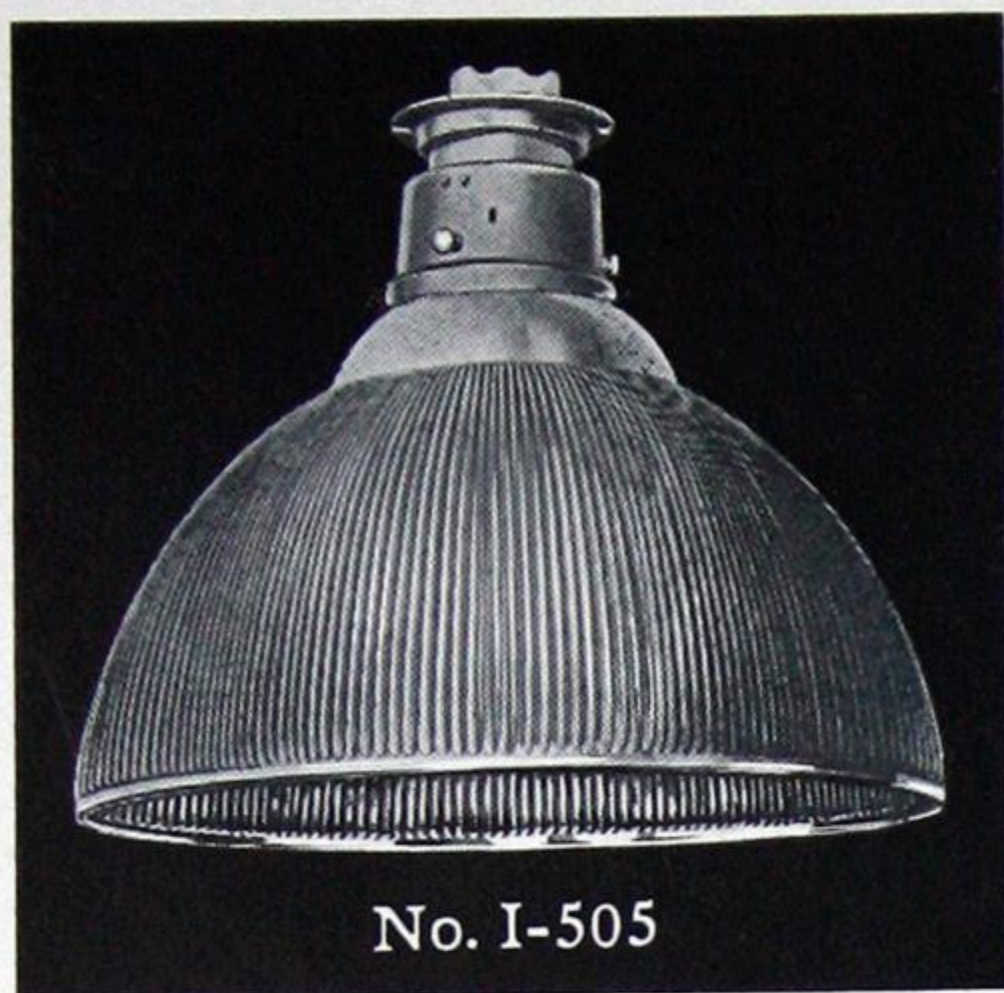
For Plaster Ceiling—Use Plaster Ring No. 8-B.



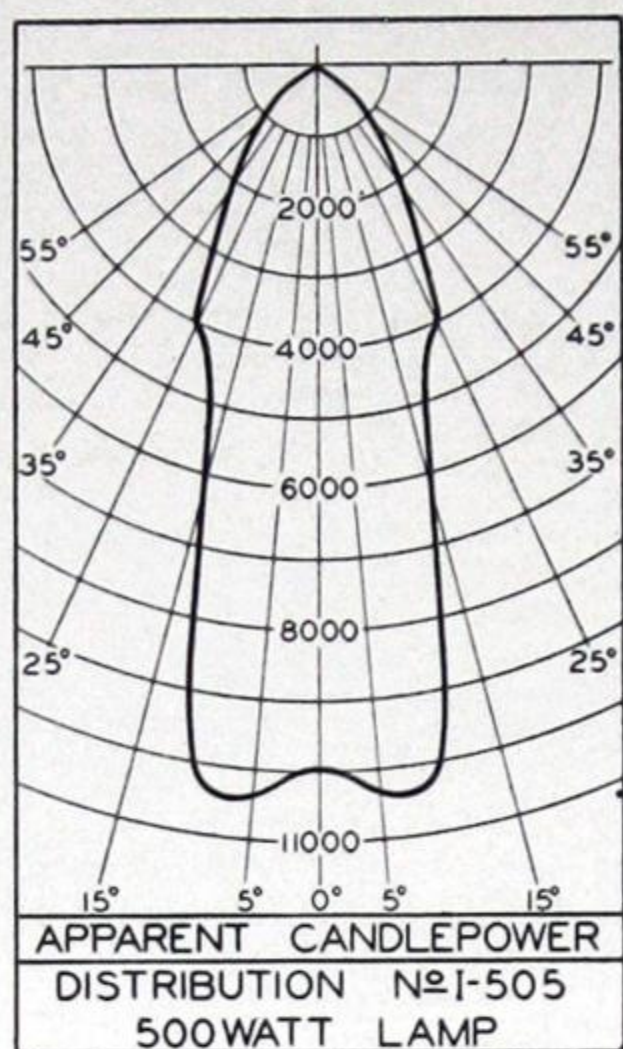
No. I-201-8 Recessed in Ceiling



PERMAFLECTOR NO. I-505 SERIES



No. I-505



Application—For high bay industrial lighting where the lighting equipment is located 25 ft. or more above the floor and exceptional concentration is required. Very effective for lighting through skylights as in art galleries, bank lobbies and similar applications. Also a splendid reflector for service in direct lighting ornamental lanterns. (See also I-505-S.)

Spacings on Centers:

For uniform illumination, should not exceed two-thirds the height of bottom of reflector above plane.

Dimensions:

Height Permaflector No. I-505-GO—9¾ inches.
Bottom Opening Circular—Diameter 16 inches.

Lamp Size: 500 Watt PS-40 or 300 Watt PS-35.

PERMAFLECTOR NO. I-505

Consists of:

Permaflector No. I-505-GO.
Outlet Box Cover Assembly No. B-3.
Holder No. M-3.

Attaches to any standard 4" Outlet Box, 1½ inches deep.

Standard Quantity—1

Weight, Approx. 13 lbs.

Retail Price, Each:

Permaflector No. I-505\$15.00
Permaflector No. I-505-GO (Glass Only).....\$13.15

Code:

Permaflector No. I-505IFIHUNFIVE
Permaflector No. I-505-GOIFIHUFGLA

PERMAFLECTOR NO. I-505-B

Consists of:

Permaflector No. I-505-GO.
Porcelain Mogul Socket No. 4.
Holder No. M-3.
Box No. KO-11—for attaching to ½ inch conduit stem.

Standard Quantity—1

Weight, Approx. 13 lbs.

Retail Price, Each:

.....\$15.00

Code

.....IFIHUFYBI

COMBINATION NO. I-505-2

(For Recessed Installation)

Consists of:

Permaflector No. I-505.
Flush Mounting Ring No. I-1005.

Standard Quantity—1

Weight, Approx. 20 lbs.

Retail Price, Each:

.....\$17.10

Code

.....IFIOFITU

Ceiling Space Required:

Space Above Ceiling Line—14¼ inches.
Opening to be Cut in Ceiling, Circular—Diam., 16¼ inches.

Additional Equipment—for use with No. I-505-2.

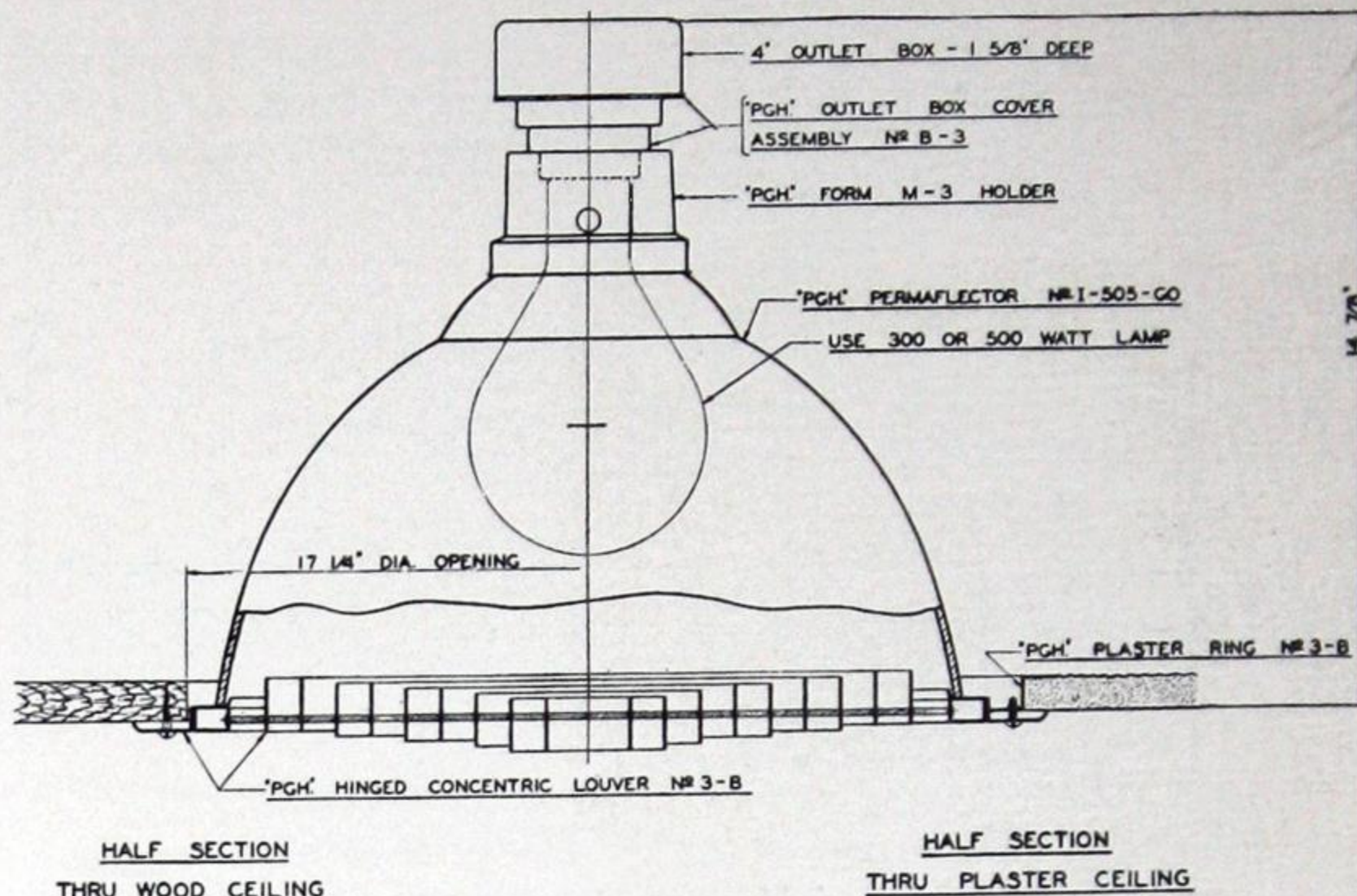
For Plaster Ceiling—Use Plaster Ring No. 3-B.

For Ceiling Roundel (Not Hinged)—Use

Ceiling Roundel No. 91 with or without Wire Guard No. WG-3.

For Louvered Lighting—Use

Concentric Louver No. FM-505-C.



No. I-505-5 Recessed in Ceiling

COMBINATION NO. I-505-4

(Hinged Ceiling Roundel Installation)

Consists of:

Permaflector No. I-505.
Hinged Ceiling Roundel No. 3-B.

Standard Quantity—1

Weight, Approx. 25 lbs.

Retail Price, Each:

.....\$30.00

Code

.....IFIOFIFO

Ceiling Space Required:

Space Above Ceiling Line—15 inches.
Opening to be Cut in Ceiling, Circular—Diam., 17¼ inches.

Additional Equipment—for use with No. I-505-4.

For Plaster Ceiling—Use Plaster Ring No. 3-B.

For Protection of Roundel—Use Wire Guard No. WG-3.

COMBINATION NO. I-505-5

(Hinged Concentric Louver Installation)

Consists of:

Permaflector No. I-505.
Hinged Concentric Louver No. 3-B.

Standard Quantity—1

Weight, Approx. 22 lbs.

Retail Price, Each:

.....\$25.75

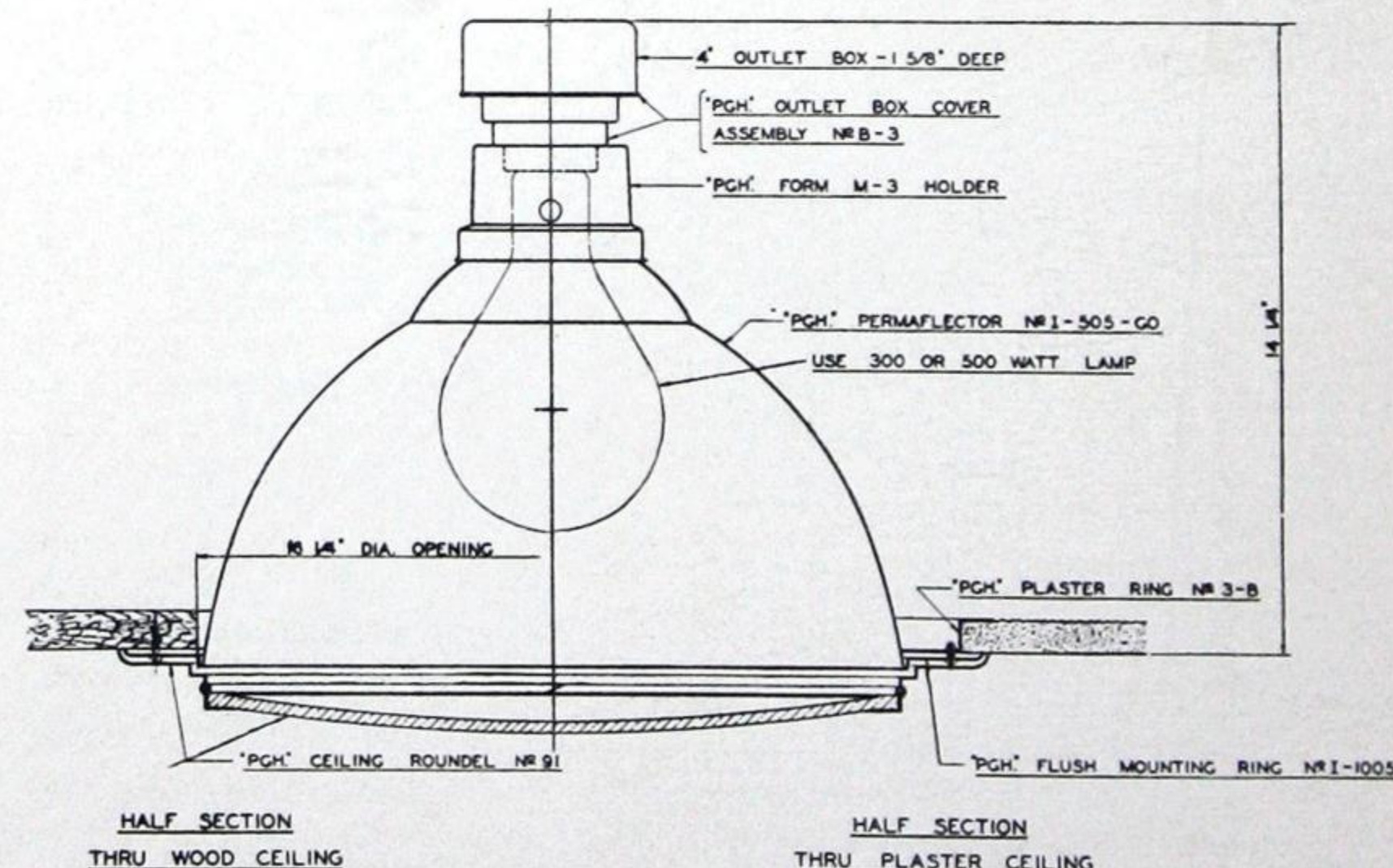
Code

.....IFIOFIFI

Ceiling Space Required: Same as for No. I-505-4.

Additional Equipment—for use with No. I-505-5.

For Plaster Ceiling—Use Plaster Ring No. 3-B.



No. I-505-2 Recessed in Ceiling
with Ceiling Roundel No. 91



PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA

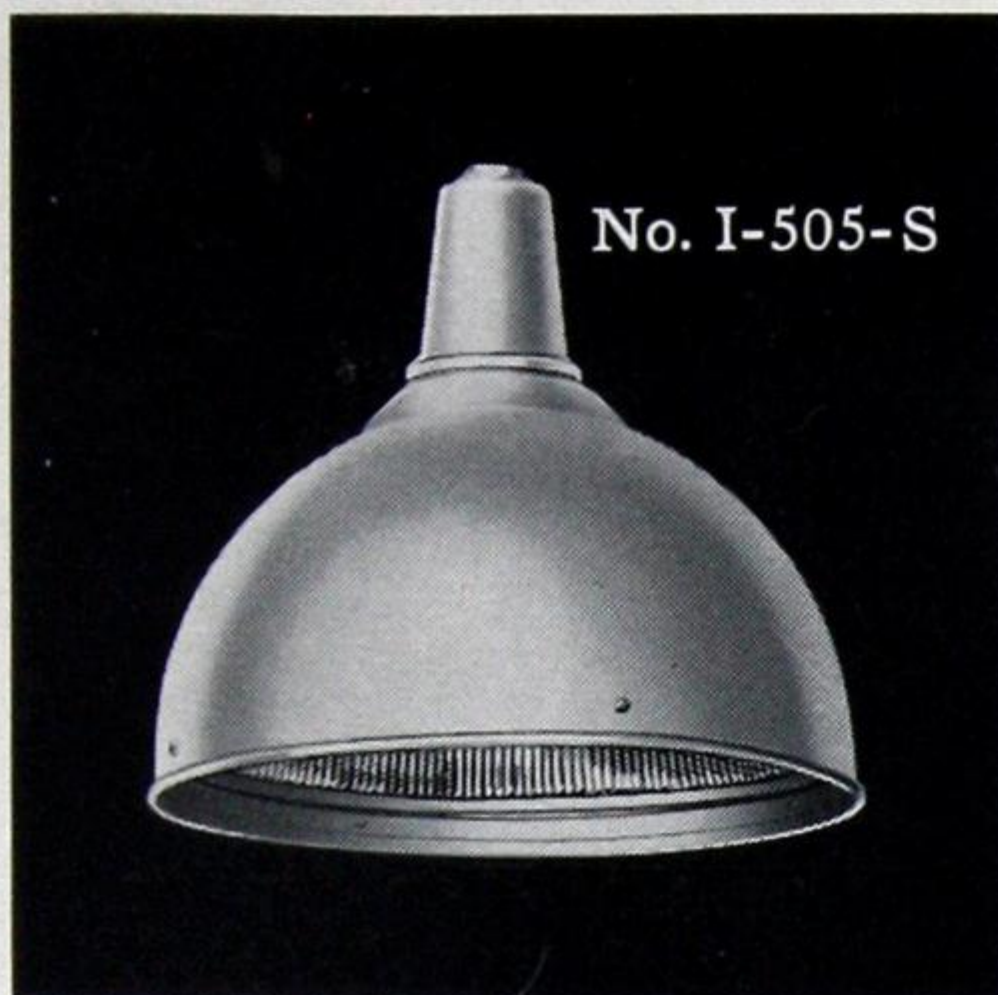
PERMAFLECTOR NO. I-505-S SERIES

To provide a metallic protective enclosure for Permalector No. I-505-GO, there is available this series of units for interiors such as industrial high bays, power houses, gymnasiums, and similar interiors where reflector enclosure seems desirable.

These units are available as listed below.

Spacings on Centers:

For uniform illumination, should not exceed two-thirds of the height of bottom of reflector above work plane.



No. I-505-S

PERMAFLECTOR NO. I-505-S

(Sprayed and Baked Aluminum Finish)

Consists of:

- Permalector No. I-505-GO.
- Spun Aluminum Housing.
- Removable Reflector Seating Ring.
- Ventilated Porcelain Mogul Socket with female cap—for attaching to any standard 1/2 inch conduit hanger.

Lamp Size: 500 Watt PS-40 or 300 Watt PS-35.

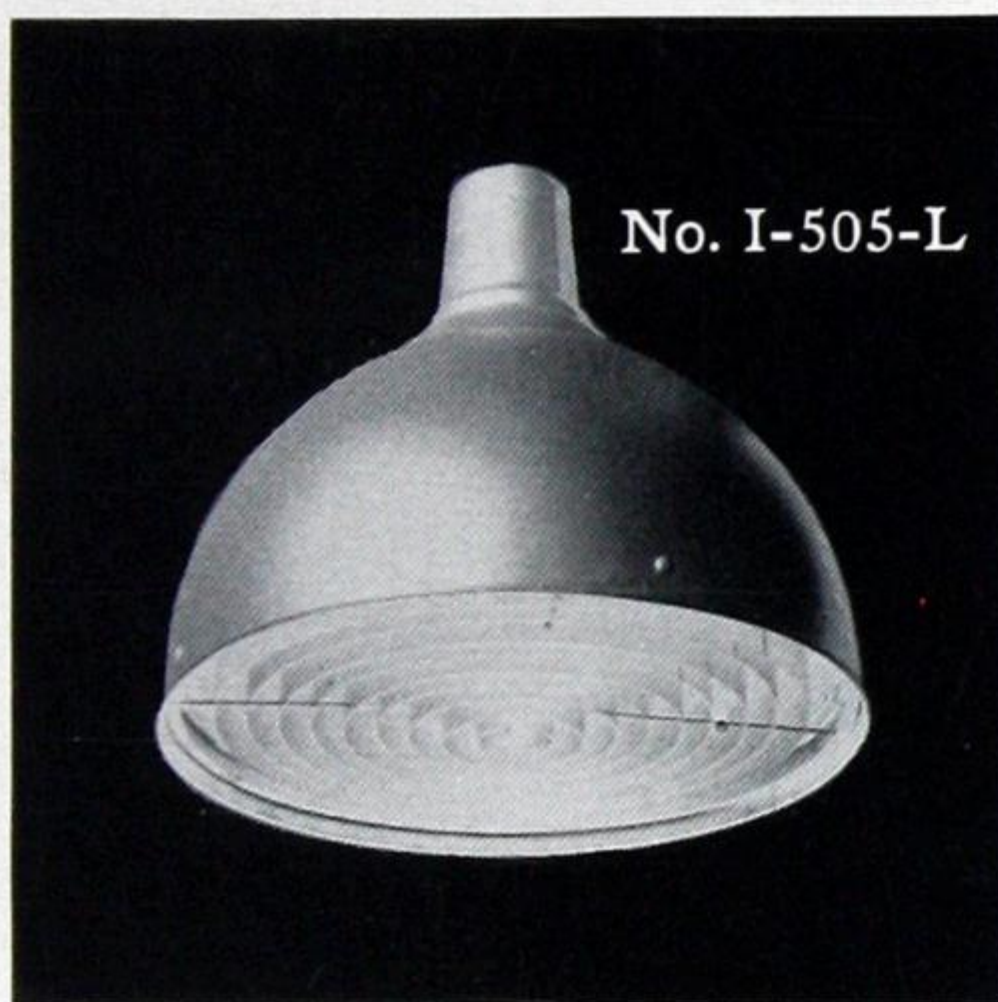
Mercury Lamp Size: 400 Watt T-16, Clear, Mogul Base, Type H-1.

Standard Quantity—1

Weight, Approx. 40 lbs.

Retail Price, Each\$22.50

CodeIFIHUNLUM



No. I-505-L

PERMAFLECTOR NO. I-505-L

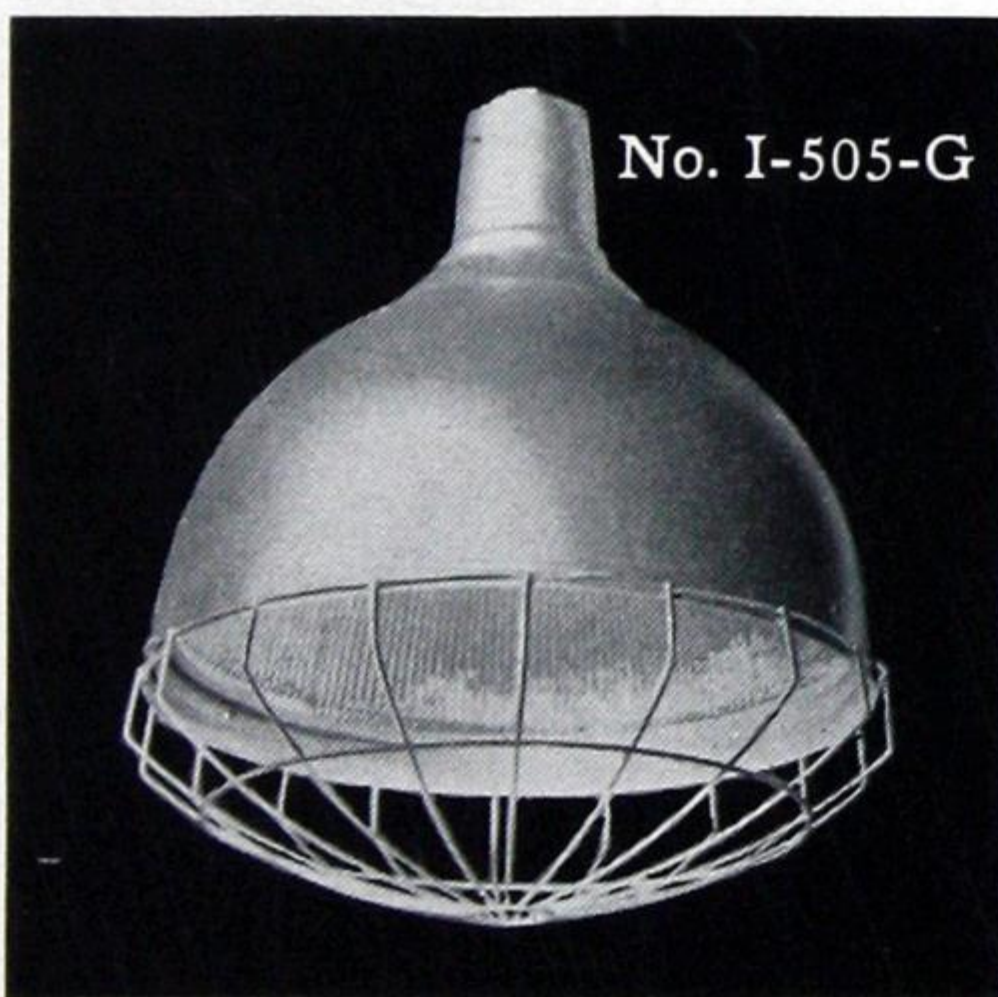
Same as Permalector No. I-505-S except equipped with removable Concentric Louver No. RV-505-S for concealment of light source, when required.

Standard Quantity—1

Weight, Approx. 42 lbs.

Retail Price, Each\$25.15

CodeIFIHUNEL



No. I-505-G

PERMAFLECTOR NO. I-505-G

Same as Permalector No. I-505-S except equipped with Hinged Wire Guard No. WG-33 for use where protection of lamps and Permalector is required, as in gymnasiums, indoor tennis courts, etc.

Standard Quantity—1

Weight, Approx. 40 lbs.

Retail Price, Each\$24.75

CodeIFIHUNG



No. I-505-LG

PERMAFLECTOR NO. I-505-LG

Same as Permalector No. I-505-S except equipped with removable Concentric Louver No. RV-505-S and Hinged Wire Guard No. WG-33.

Standard Quantity—1

Weight, Approx. 42 lbs.

Retail Price, Each\$27.40

CodeIFIHULG

MERCURY LAMP INSTALLATIONS

Permalector No. I-505-S Series Units may be installed for use with 400 watt (Type H-1) Mercury Lamps by providing a specially designed auxiliary ballast unit for each lamp. This ballast must be supplied for each 400 watt lamp; may be mounted near each lamp, or grouped in one or more banks located some distance away. These ballasts are not supplied by Pittsburgh Reflector Company; they are available from any electrical wholesaler's stock.

Complete installation and performance data on Mercury Lamps can be obtained from the various lamp manufacturers. For the convenience of our customers we present herewith a few of the advantages and disadvantages of mercury lighting.

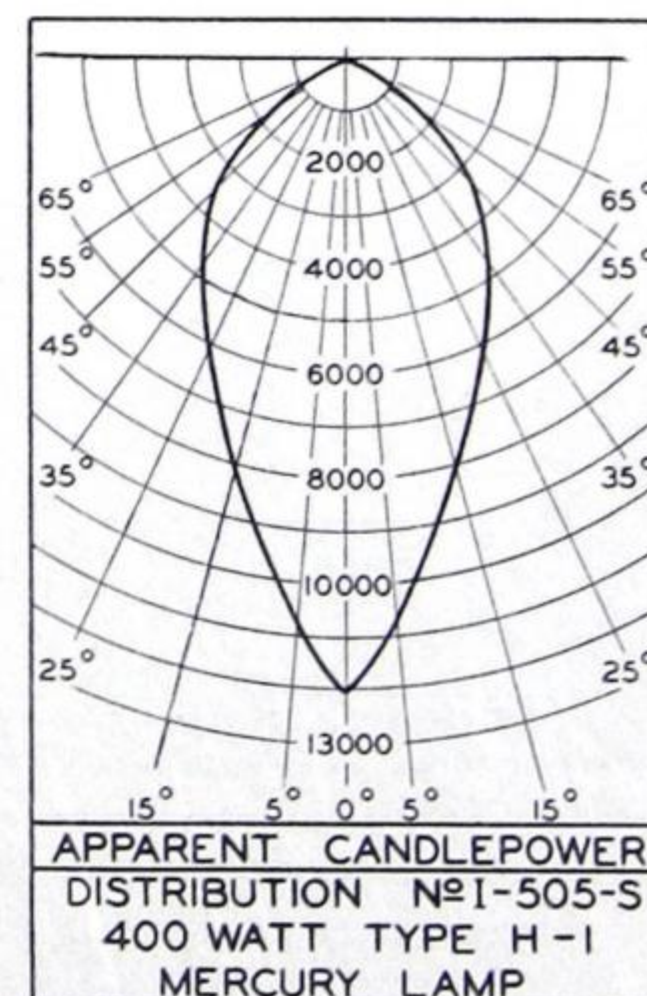
High lighting efficiency for current consumed is an outstanding feature of Mercury Lamps. The 400-watt (Type H-1) Mercury Lamp produces 40 lumens per watt in normal operation which is slightly more light than the 750-watt Incandescent Lamp.

The high efficiency of Mercury Lamps makes them advantageous for replacing inadequate lighting installations where present wiring is already loaded to capacity.

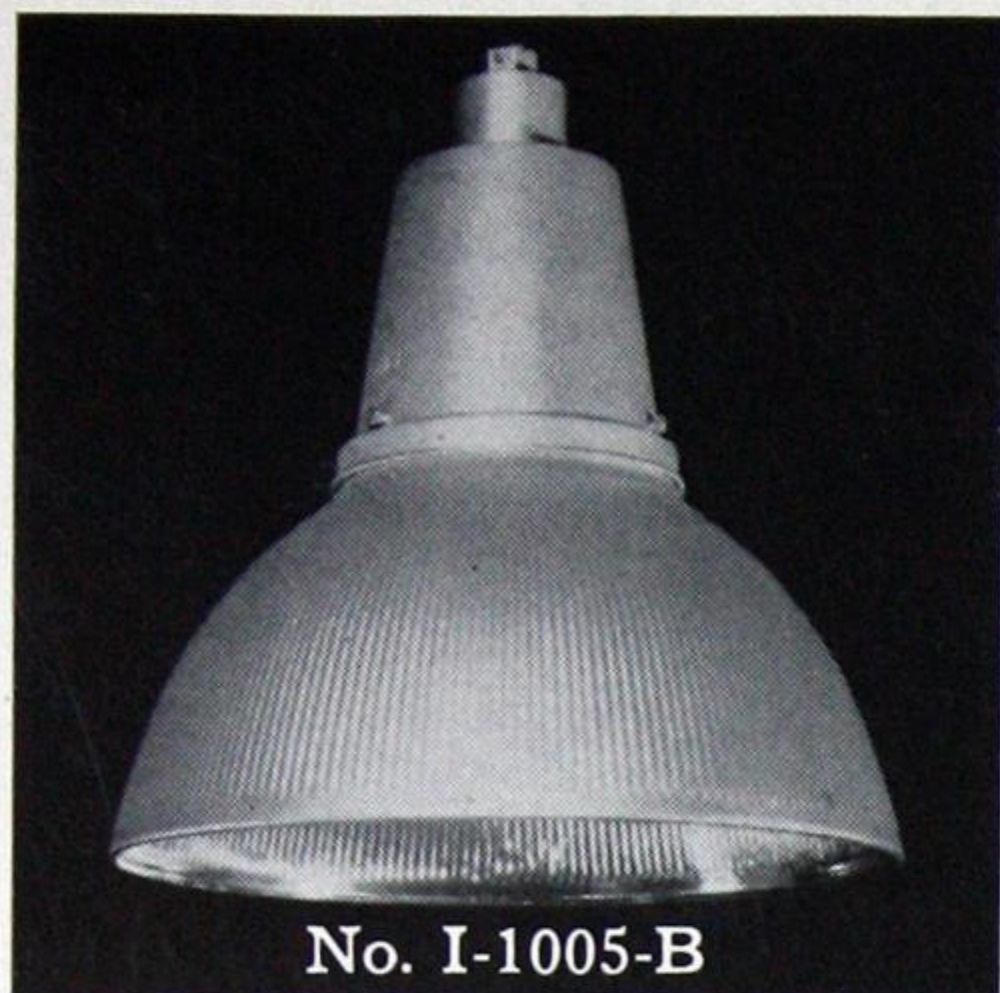
Most of the light produced by these lamps is radiated in the yellow-green and green portions of the visible spectrum. Therefore, where color discrimination is a consideration, light from incandescent lamps, which has a high percentage of red, can be mixed with mercury lighting.

The stroboscopic effect of Mercury Lamps takes form as a flicker and may make moving machinery appear to change speed or direction.

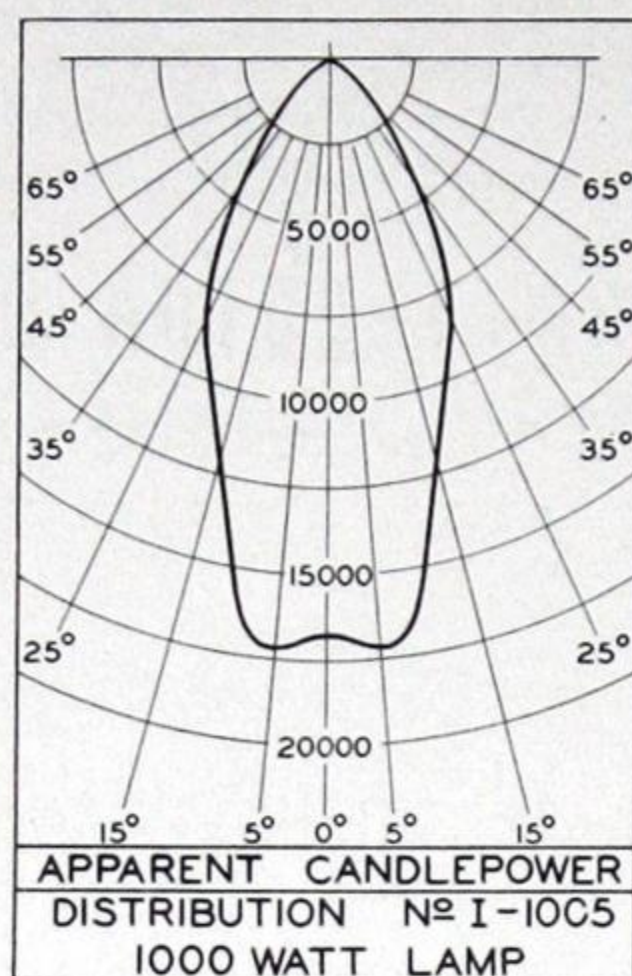
Their high lumen output makes it essential that Mercury Lamps be used only in properly designed reflector equipment.



PERMAFLECTOR NO. I-1005 SERIES



No. I-1005-B



Application—For high bay industrial lighting where the lighting equipment is located 25 ft. or more above the floor and exceptional concentration is required. Very effective for lighting through skylights as in art galleries, bank lobbies and similar applications. Also a splendid reflector for service in direct lighting ornamental lanterns.

Spacings on Centers:

For uniform illumination, should not exceed two-thirds the height of bottom of reflector above work plane.

Dimensions:

Height Permaflector No. I-1005-GO—8 $\frac{1}{8}$ inches.
Bottom Opening Circular—Diameter, 16 inches.

Lamp Size: 1000 Watt or 750 Watt PS-52.

PERMAFLECTOR NO. I-1005-A

Consists of:

Permaflector No. I-1005-GO.
Mogul Socket No. 4.
Holder No. 14.
4" Outlet Box, 2 $\frac{1}{8}$ inches deep.

Standard Quantity—1

Weight, Approx. 10 lbs.

Retail Price, Each:

Permaflector No. I-1005-A.....\$16.75
Permaflector No. I-1005-GO (Glass Only).....\$12.00

Code:

Permaflector No. I-1005-A.....ITHOFI
Permaflector No. I-1005-GO.....ITHOSFIGLA

PERMAFLECTOR NO. I-1005-B

Consists of:

Permaflector No. I-1005-GO.
Porcelain Mogul Socket No. 4.
Holder No. 14.
Box No. KO-11—for attaching to $\frac{1}{2}$ inch conduit stem.

Standard Quantity—1

Weight, Approx. 11 lbs.

Retail Price, Each.....\$16.75

Code.....ITHOFIB

COMBINATION NO. I-1005-2

(For Recessed Installation)

Consists of:

Permaflector No. I-1005-A.
Flush Mounting Ring No. I-1005.

Standard Quantity—1

Weight, Approx. 12 lbs.

Retail Price, Each.....\$18.85

Code.....ITHOFITU

Ceiling Space Required:

Space Above Ceiling Line—16 $\frac{1}{2}$ inches.
Opening to be Cut in Ceiling, Circular—Diam., 16 $\frac{1}{4}$ inches.

Additional Equipment—for use with No. I-1005-2.

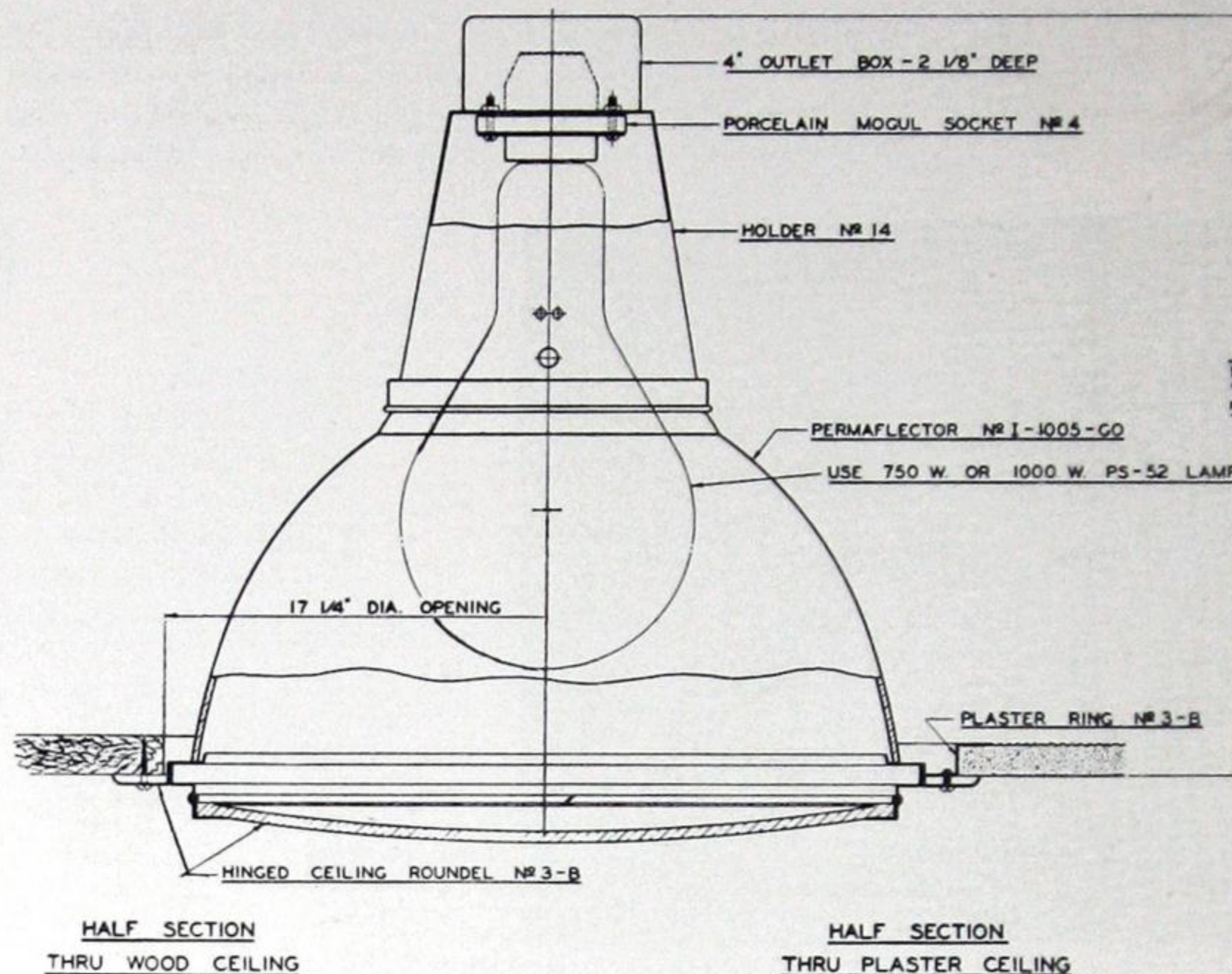
For Plaster Ceiling—Use Plaster Ring No. 3-B.

For Ceiling Roundel (Not Hinged)—Use

Ceiling Roundel No. 91 with or without Wire Guard No. WG-3.

For Louvered Lighting—Use

Concentric Louver No. FM-505-C.



No. I-1005-4 Recessed in Ceiling

COMBINATION NO. I-1005-4

(Hinged Ceiling Roundel Installation)

Consists of:

Permaflector No. I-1005-A.
Hinged Ceiling Roundel No. 3-B.

Standard Quantity—1

Weight, Approx. 25 lbs.

Retail Price, Each.....\$31.75

Code.....ITHOFIFO

Ceiling Space Required:

Space Above Ceiling Line—17 $\frac{1}{8}$ inches.
Opening to be Cut in Ceiling, Circular—Diam., 17 $\frac{1}{4}$ inches.

Additional Equipment—for use with No. I-1005-4.

For Plaster Ceiling—Use Plaster Ring No. 3-B.

For Protection of Roundel—Use Wire Guard No. WG-3.

COMBINATION NO. I-1005-5

(Hinged Concentric Louver Installation)

Consists of:

Permaflector No. I-1005-A.
Hinged Concentric Louver No. 3-B.

Standard Quantity—1

Weight, Approx. 21 lbs.

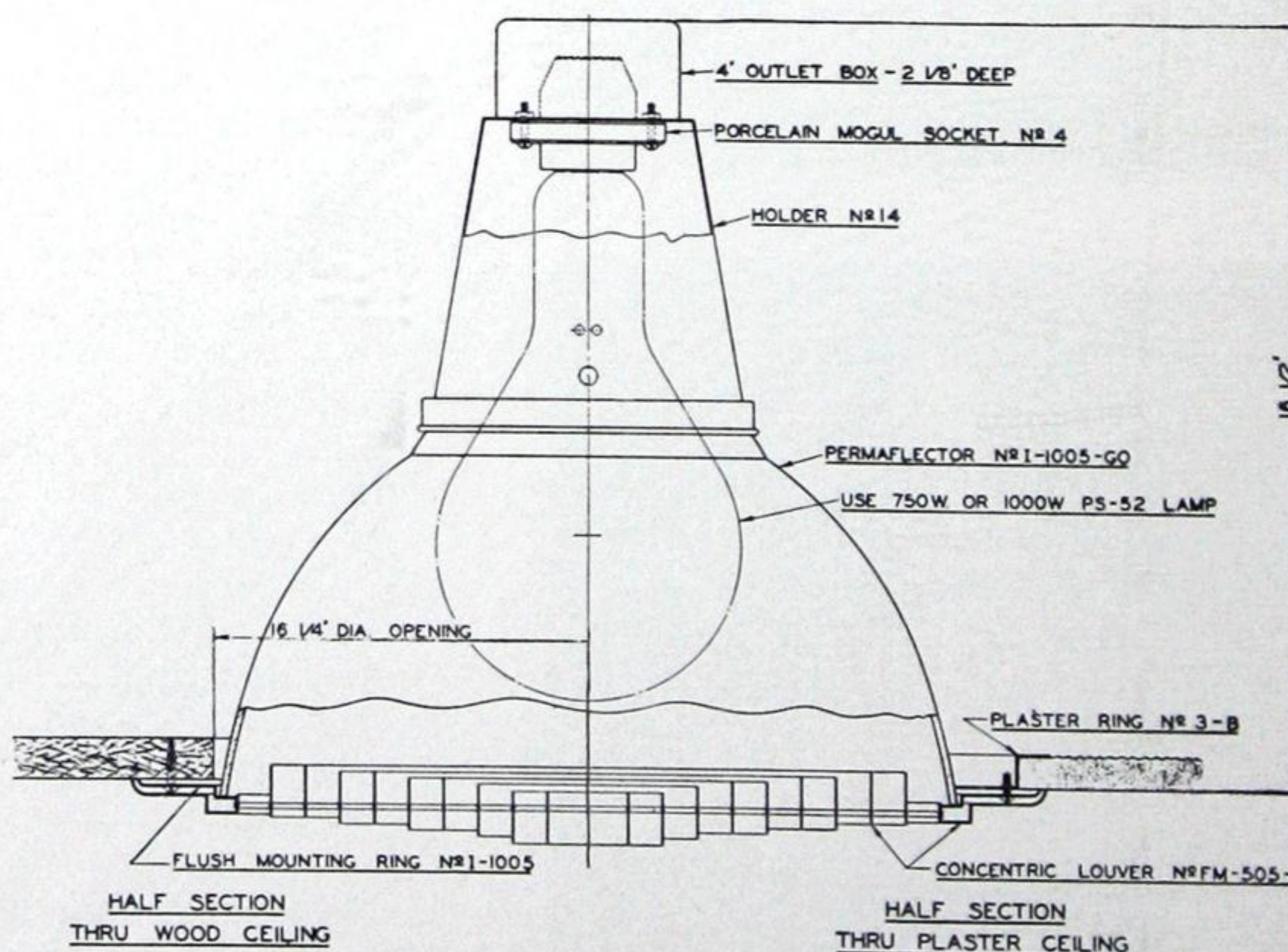
Retail Price, Each.....\$27.50

Code.....ITHOFIFI

Ceiling Space Required: Same as for No. I-1005-4.

Additional Equipment—for use with No. I-1005-5.

For Plaster Ceiling—Use Plaster Ring No. 3-B.



No. I-1005-2 Recessed in Ceiling and Louvered



PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA

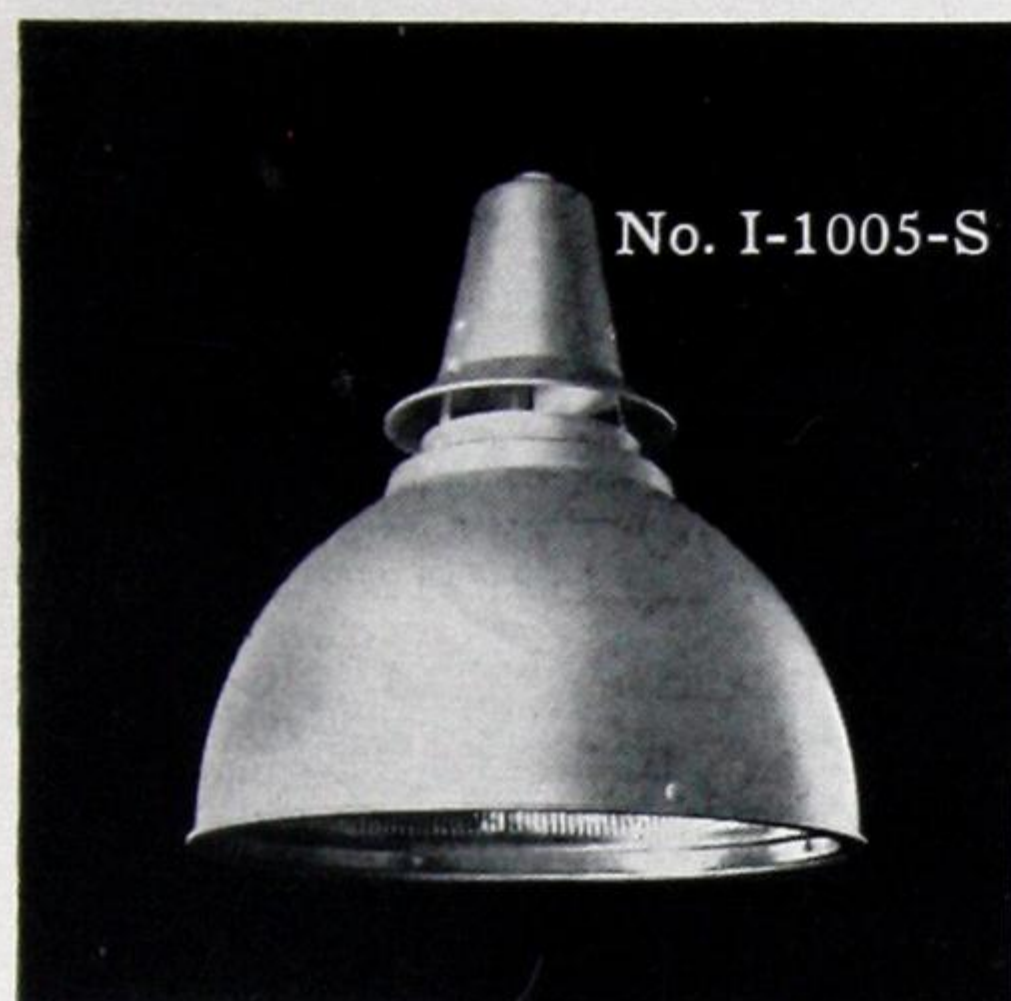
PERMAFLECTOR NO. I-1005-S SERIES

To provide a metallic protective enclosure for Permalector No. I-1005-GO, there is available this series of units for interiors such as industrial high bays, power houses, gymnasiums and similar interiors where reflector enclosure seems desirable.

These units are available as listed below.

Spacings on Centers:

For uniform illumination, should not exceed two-thirds of the height of bottom of reflector above work plane.



No. I-1005-S

PERMAFLECTOR NO. I-1005-S

(Sprayed and Baked Aluminum Finish)

Consists of:

Permalector No. I-1005-GO.
Spun Aluminum Housing.
Spun Aluminum Husk.
Removable Reflector Seating Ring.
Ventilated Porcelain Mogul Socket with female cap—for attaching to any standard 1/2 inch conduit stem.

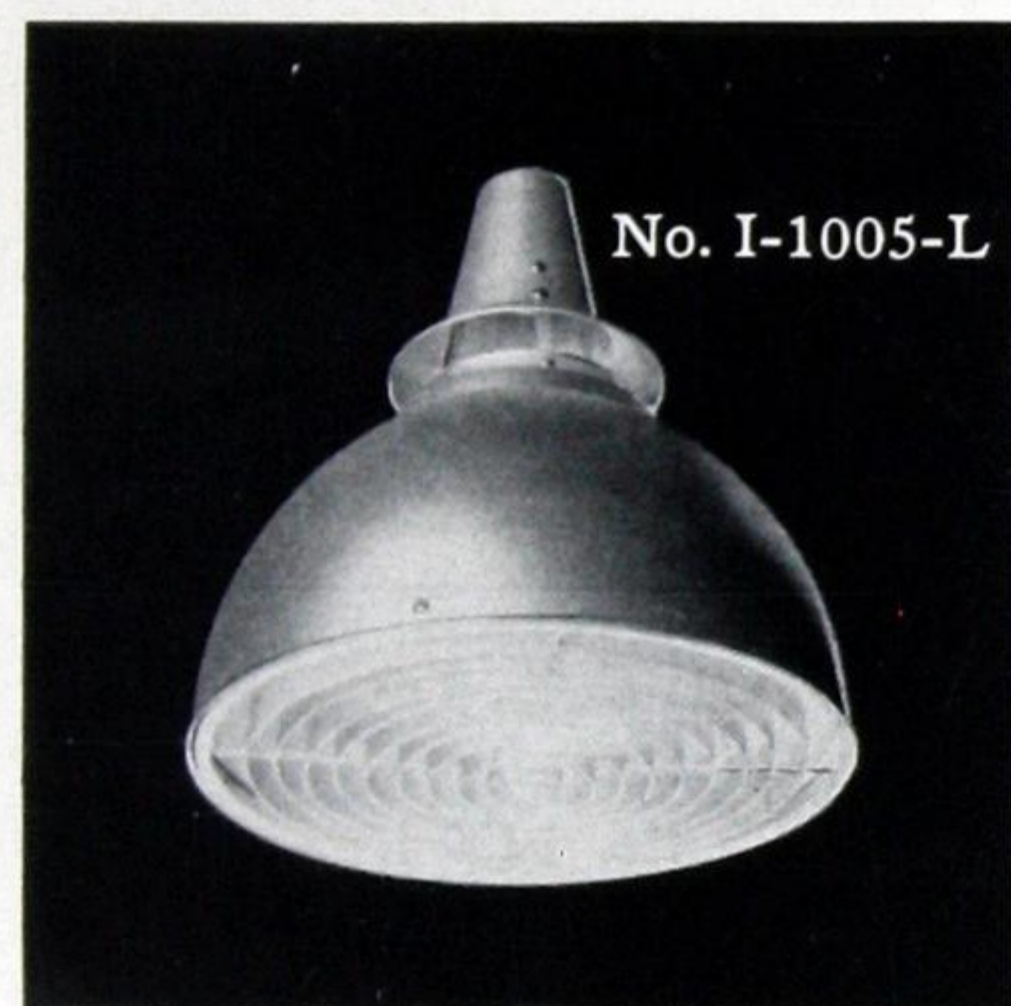
Lamp Size—1000 Watt or 750 Watt PS-52.

Standard Quantity—1

Weight, Approx. 35 lbs.

Retail Price, Each.....\$24.00

CodeITHOSFILUM



No. I-1005-L

PERMAFLECTOR NO. I-1005-L

Same as Permalector No. I-1005-S except equipped with removable Concentric Louver No. RV-505-S for concealment of light source, when required.

Standard Quantity—1

Weight, Approx. 36 lbs.

Retail Price, Each.....\$26.65

CodeITHOSFEL

PERMAFLECTOR NO. I-1005-G

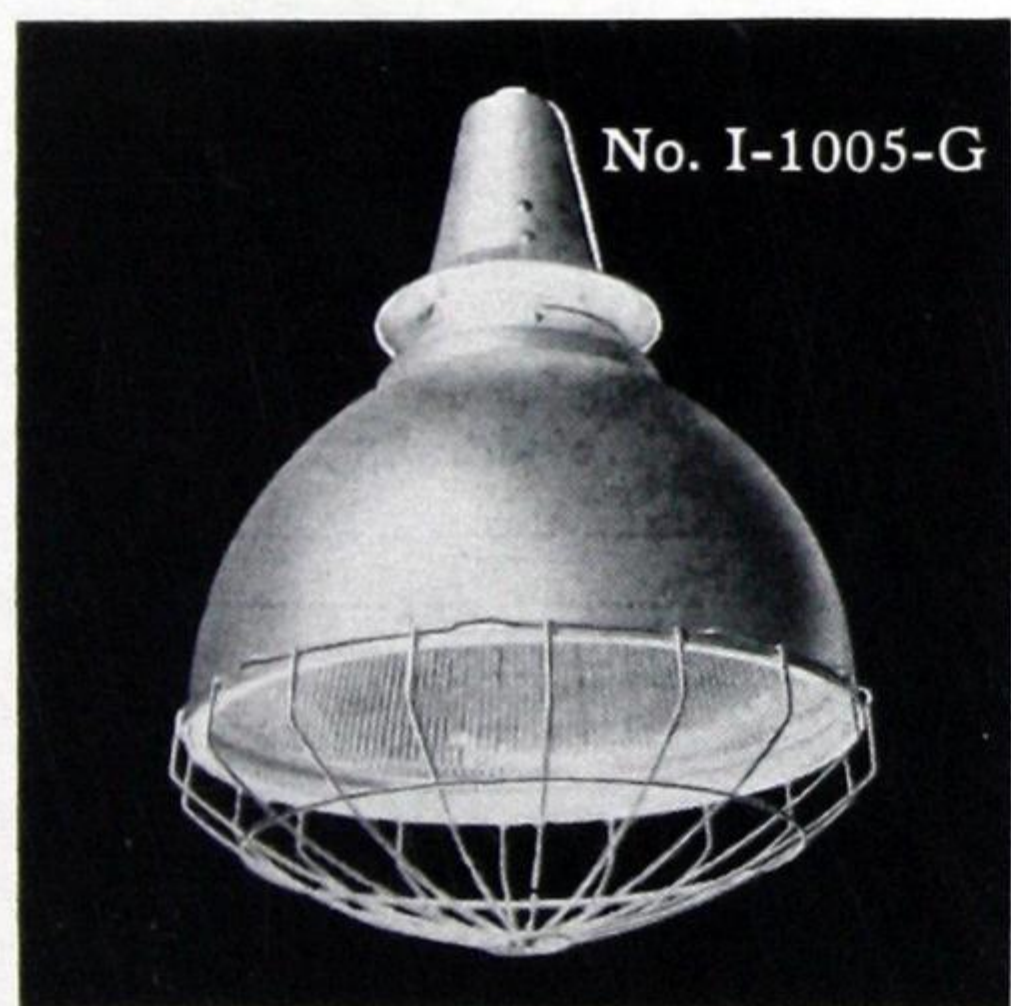
Same as Permalector No. I-1005-S except equipped with Hinged Wire Guard No. WG-33 for use where protection of lamp and Permalector is required, as in gymnasiums, indoor tennis courts, etc.

Standard Quantity—1

Weight, Approx. 36 lbs.

Retail Price, Each.....\$26.25

CodeITHOSFIG



No. I-1005-G

PERMAFLECTOR NO. I-1005-LG

Same as Permalector No. I-1005-S except equipped with removable Concentric Louver No. RV-505-S and Hinged Wire Guard No. WG-33.

Standard Quantity—1

Weight, Approx. 37 lbs.

Retail Price, Each.....\$28.90

CodeITHOSELG



No. I-1005-LG

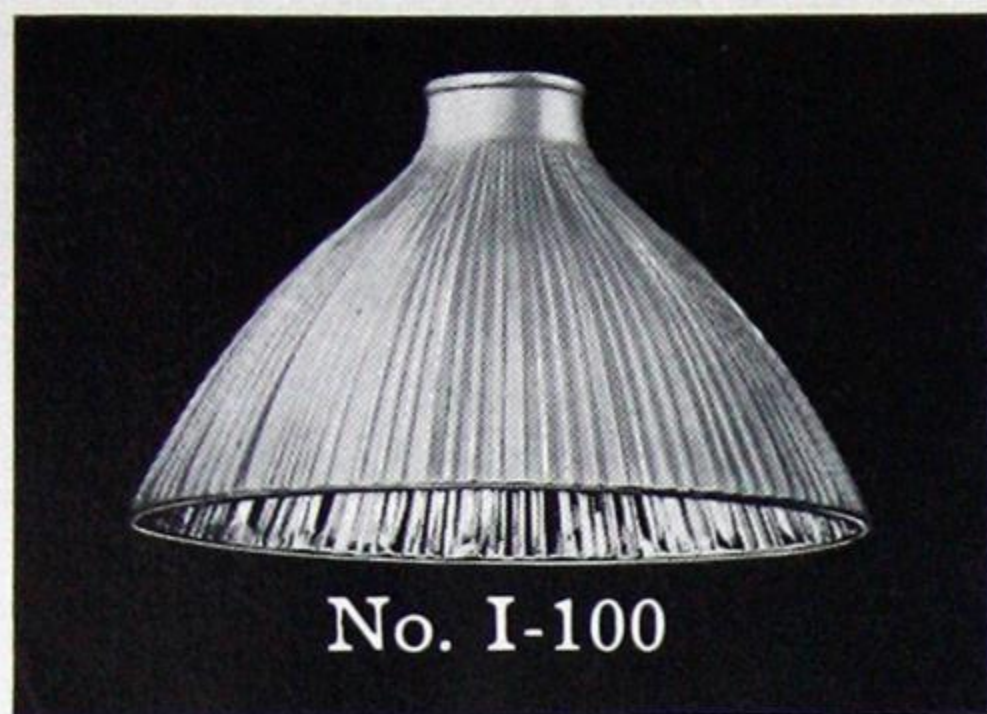


Recessed Permalectors, I-type, 1000 Watt Size, Installed

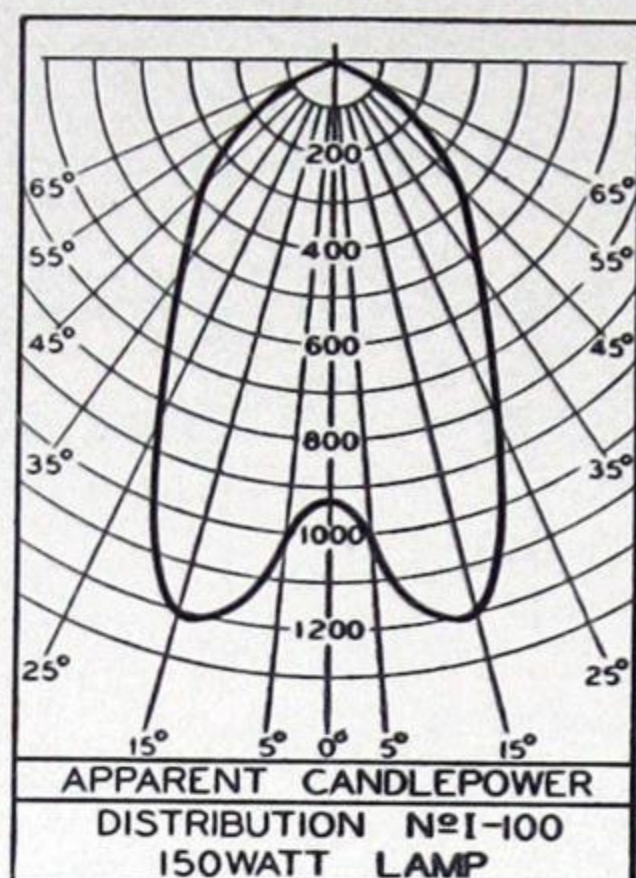
Architect—N. C. Wyeth
Electrical Contractor—E. C. Ernst Inc., Washington, D. C.
Eastern High School Gymnasium, Washington, D. C.



PERMAFLECTOR NO. I-100 SERIES



No. I-100



Application—Used chiefly for direct lighting, exposed or recessed in ceiling.

Spacings on Centers:

For uniform illumination, should not exceed two-thirds the height of bottom of reflector above work plane.

Minimum Spacings: for

Mounting on Conduit No. 1 or No. 12—10½ inches on centers.

Mounting on Knockout Strip No. KO-1—12 inches on centers.

Dimensions:

Height Permaflector No. I-100—5⅞ inches.

Bottom Opening Circular—Diameter, 9¾ inches.

Lamp Size: 100 Watt A-23; 150 Watt A-25.

PERMAFLECTOR NO. I-100

Standard Quantity—10

Weight, Approx. 19 lbs.

Retail Price, Each.....\$3.25

CodeIHUNDER

Additional Equipment—for use with No. I-100.

Holder:

With Grooved Porcelain Socket—Use

2¼" Form "SR" Holder for 100 Watt A-23 Lamp.

2¼" Form "LR" Holder for 150 Watt A-25 Lamp.

With Porcelain Sockets No. 1 or No. KO-8—Use

2¼" Form "S" Holder for 100 Watt A-23 Lamp.

2¼" Form "L" Holder for 150 Watt A-25 Lamp.

May Be Installed With: Outlet Box Cover Assembly No. B-1-3¼ or B-1-4 with 2¼" Form "S" or "L" Holder.

May Be Mounted On:

Conduit No. 1 or Knockout Strip No. KO-1 with 2¼" Form "S" or "L" Holder.

Conduit No. 12 with 2¼" Form "SR" or "LR" Holder.

For Colored Lighting: Use

Color-Lite No. 2 or No. 2-DB for external mounting.

For Louvered Lighting: Use

Parallel Louver No. EM-54 for external mounting.

Concentric Louver No. EM-54-C for external mounting.

COMBINATION NO. I-100-2

(For Recessed Installation)

(Use 150 Watt A-25 Lamp)

Consists of:

Permaflector No. I-100.

Outlet Box Cover Assembly No. B-1-3¼-L.

Flush Mounting Ring No. I-201.

Standard Quantity—10

Weight, Approx. 29 lbs.

Retail Price, Each.....\$4.60

CodeIHUNTU

Ceiling Space Required:

Space Above Ceiling Line—8⅞ inches.

Opening to be Cut in Ceiling, Circular—Diam., 10 inches.

Additional Equipment—for use with No. I-100-2.

For Plaster Ceiling—Use Plaster Ring No. 54.

For Colored Lighting—Use Color-Lite No. 21 or No. 21-DB.

For Ceiling Roundel (Not Hinged)—Use

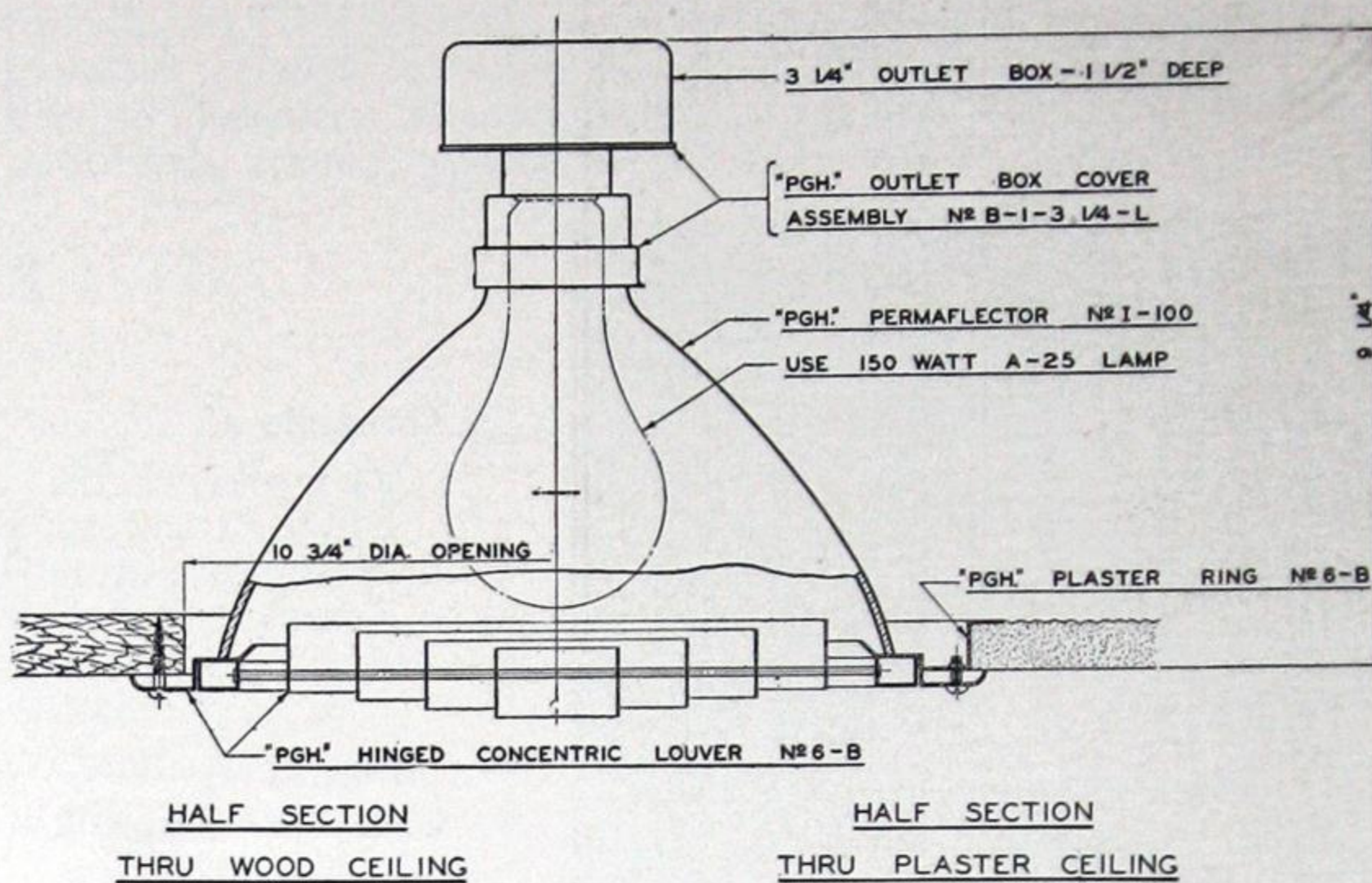
Ceiling Roundel No. 21 with or without Wire Guard No. WG-6.

For Louvered Lighting—Use

Parallel Louver No. FM-54.

Concentric Louver No. FM-54-C.

Egg Crate Louver No. FEC-200.



No. I-100-5 Recessed in Ceiling

COMBINATION NO. I-100-4

(Hinged Ceiling Roundel Installation)

(Use 150 Watt A-25 Lamp)

Consists of:

Permaflector No. I-100.

Outlet Box Cover Assembly No. B-1-3¼-L.

Hinged Ceiling Roundel No. 6-B.

Standard Quantity—10

Weight, Approx. 47 lbs.

Retail Price, Each.....\$8.55

CodeIHUNFO

Ceiling Space Required:

Space Above Ceiling Line—9¼ inches.

Opening to be Cut in Ceiling, Circular—Diam., 10¼ inches.

Additional Equipment—for use with No. I-100-4.

For Plaster Ceiling—Use Plaster Ring No. 6-B.

For Protection of Roundel—Use Wire Guard No. WG-6.

COMBINATION NO. I-100-5

(Hinged Concentric Louver Installation)

(Use 150 Watt A-25 Lamp)

Consists of:

Permaflector No. I-100.

Outlet Box Cover Assembly No. B-1-3¼-L.

Hinged Concentric Louver No. 6-B.

Standard Quantity—10

Weight, Approx. 43 lbs.

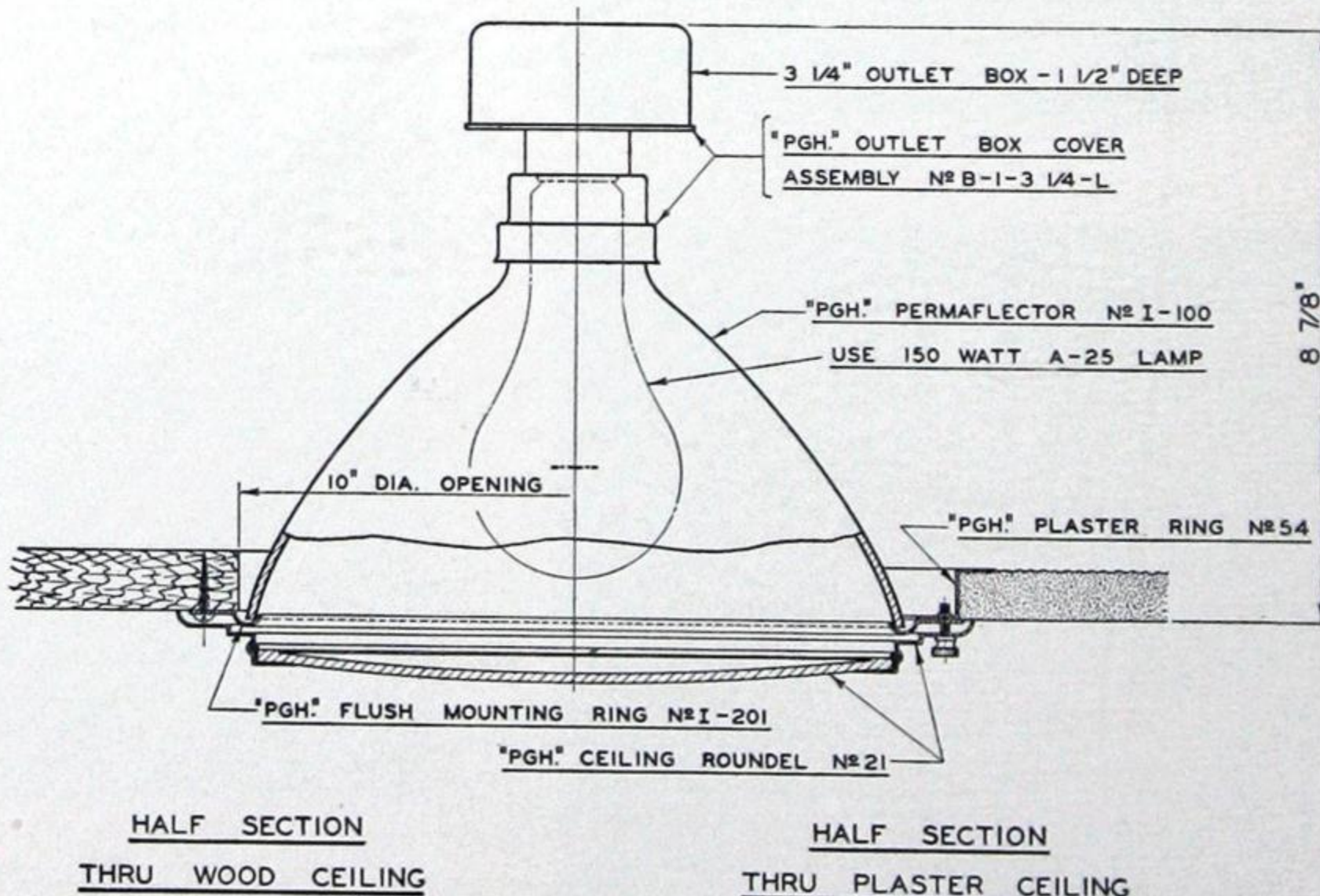
Retail Price, Each.....\$8.20

CodeIHUNFI

Ceiling Space Required—Same as for No. I-100-4.

Additional Equipment—for use with No. I-100-5.

For Plaster Ceiling—Use Plaster Ring No. 6-B.

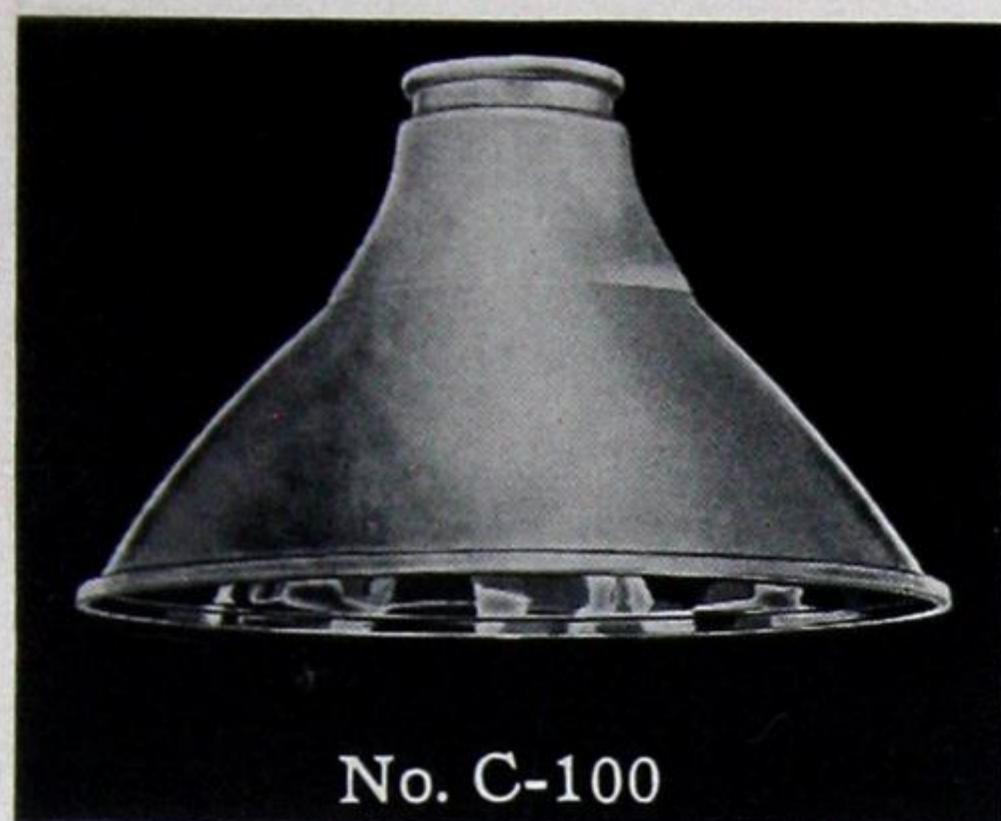


No. I-100-2 Recessed in Ceiling
with Ceiling Roundel No. 21

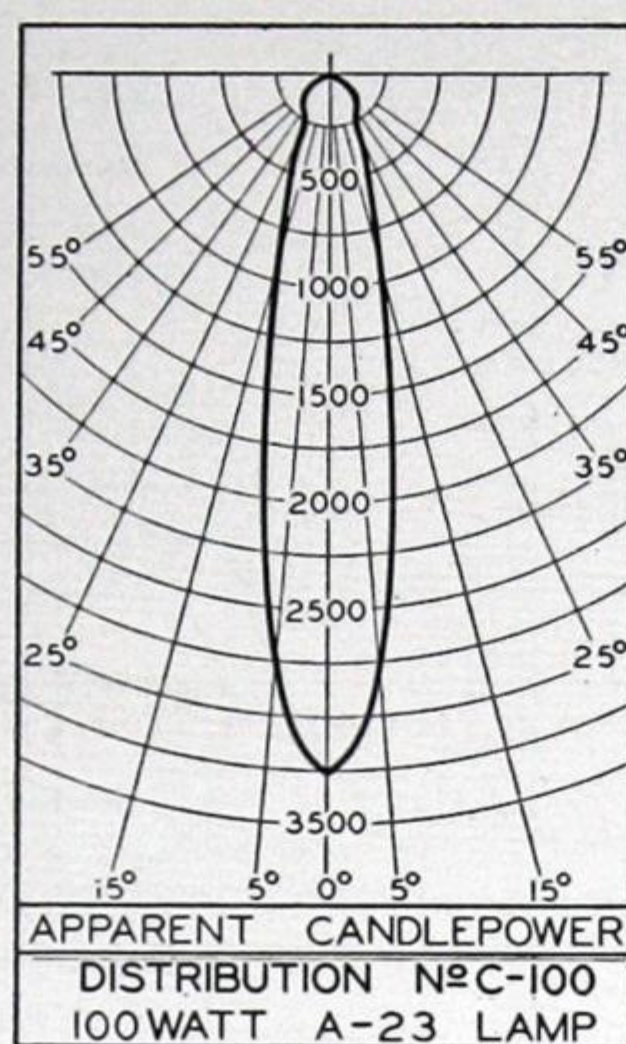


PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA

PERMAFLECTOR NO. C-100 SERIES



No. C-100



Application — This is Permaflector used with Spot WS-100. May be set flush in ceiling and louvered for spot lighting effects. A good cove lighting reflector where narrow concentrated beam for long throw is required.

Spacings on Centers:

For uniform illumination, should not exceed $\frac{1}{3}$ the height of bottom of reflector above work plane.

Minimum Spacings: for

Mounting on Conduit No. 1 or No. 12—9 inches on centers.

Mounting on Knockout Strip No. KO-1—9 inches on centers.

Dimensions:

Height Permaflector No. C-100—5 inches.

Bottom Opening Circular—Diam., $8\frac{1}{8}$ inches.

Lamp Size—

60 Watt A-19; 75 Watt A-21; 100 Watt A-23.

PERMAFLECTOR NO. C-100

Standard Quantity—10

Weight, Approx. 12 lbs.

Retail Price, Each.....\$3.00

CodeSEEHUNDER

Additional Equipment—for use with No. C-100.

Holder:

For Grooved Porcelain Socket—Use

$2\frac{1}{4}$ " Form "SR" Holder for 60 Watt A-19 Lamp.

$2\frac{1}{4}$ " Form "LR" Holder for 100 Watt A-23 Lamp.

For Porcelain Sockets No. 1 or No. KO-8—Use

$2\frac{1}{4}$ " Form "S" Holder for 60 Watt A-19 Lamp.

$2\frac{1}{4}$ " Form "SL" Holder for 75 Watt A-21 Lamp.

$2\frac{1}{4}$ " Form "L" Holder for 100 Watt A-23 Lamp.

May Be Installed With: Outlet Box Cover Assembly No.

B-1-3 $\frac{1}{4}$ or B-1-4 with $2\frac{1}{4}$ " Form "S," "SL" or "L" Holder.

May Be Mounted On:

Conduit No. 1 or Knockout Strip No. KO-1 with $2\frac{1}{4}$ " Form "S," "SL" or "L" Holder.

Conduit No. 12 with $2\frac{1}{4}$ " Form "SR" or "LR" Holder.

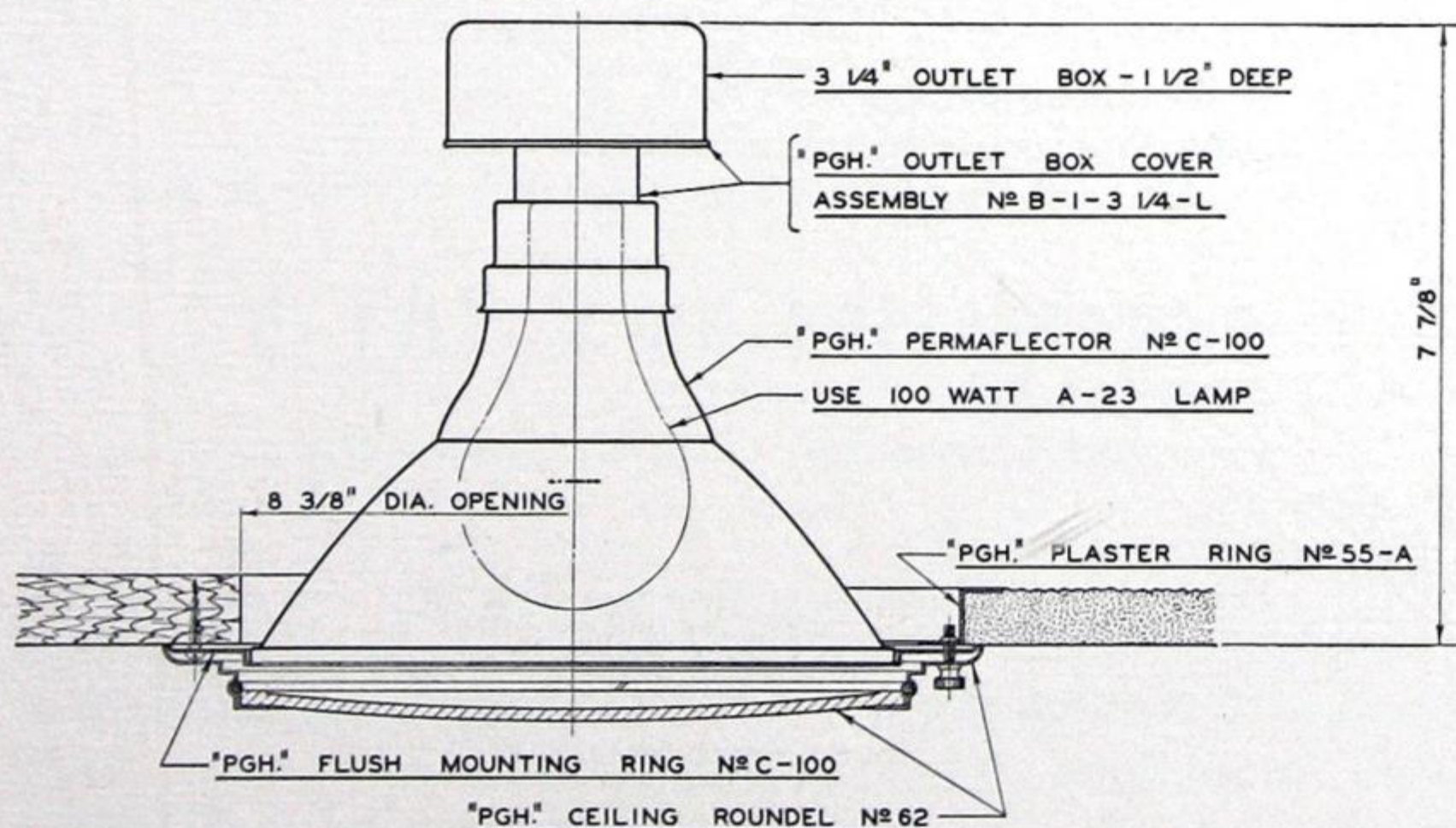
For Colored Lighting: Use

Color-Lite No. 6 or No. 6-DB for external mounting.

For Louvered Lighting: Use

Parallel Louver No. EM-55 for external mounting.

Concentric Louver No. EM-55-C for external mounting.



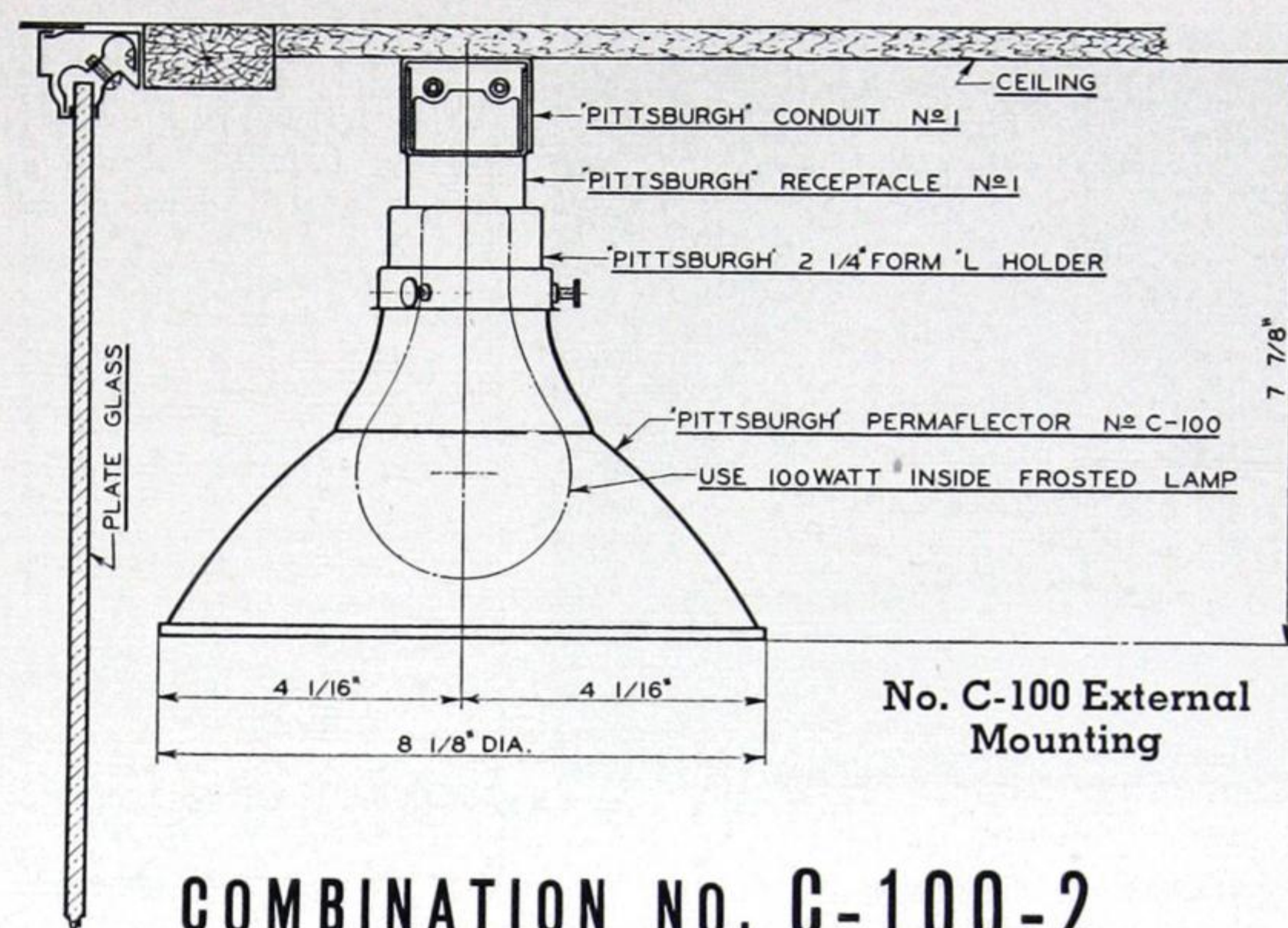
HALF SECTION

THRU WOOD CEILING

HALF SECTION

THRU PLASTER CEILING

No. C-100-2 Recessed in Ceiling with Ceiling Roundel No. 62



No. C-100 External Mounting

COMBINATION NO. C-100-2

(For Recessed Installations)

(Use 100 Watt A-23 Lamp)

Consists of:

Permaflector No. C-100.

Outlet Box Cover Assembly No. B-1-3 $\frac{1}{4}$ -L.

Flush Mounting Ring No. C-100.

Standard Quantity—10

Weight, Approx. 23 lbs.

Retail Price, Each.....\$4.12

CodeCEUTU

Ceiling Space Required:

Space Above Ceiling Line—8 inches.

Opening to be Cut in Ceiling, Circular—Diam., $8\frac{3}{8}$ inches.

Additional Equipment—for use with No. C-100-2.

For Plaster Ceiling—Use Plaster Ring No. 55-A.

For Colored Lighting—Use Color-Lite No. 61 or No. 61-DB.

For Ceiling Roundel (Not Hinged)—Use

Ceiling Roundel No. 62 with or without Wire Guard No. WG-1.

For Louvered Lighting—Use

Parallel Louver No. FM-55.

Concentric Louver No. FM-55-C.

Egg Crate Louver No. FEC-100.

COMBINATION NO. C-100-4

(Hinged Ceiling Roundel Installation)

(Use 100 Watt A-23 Lamp)

Consists of:

Permaflector No. C-100.

Outlet Box Cover Assembly No. B-1-3 $\frac{1}{4}$ -L.

Hinged Ceiling Roundel No. 7-B.

Standard Quantity—10

Weight, Approx. 38 lbs.

Retail Price, Each.....\$7.45

CodeCEUFO

Ceiling Space Required:

Space Above Ceiling Line—8 $\frac{3}{8}$ inches.

Opening to be Cut in Ceiling, Circular—Diam., $9\frac{3}{4}$ inches.

Additional Equipment—for use with No. C-100-4.

For Plaster Ceiling—Use Plaster Ring No. 1-B.

For Protection of Roundel—Use Wire Guard No. WG-1.

COMBINATION NO. C-100-5

(Hinged Concentric Louver Installation)

(Use 100 Watt A-23 Lamp)

Consists of:

Permaflector No. C-100.

Outlet Box Cover Assembly No. B-1-3 $\frac{1}{4}$ -L.

Hinged Concentric Louver No. 7-B.

Standard Quantity—10

Weight, Approx. 31 lbs.

Application—Excellent for recessing in ceiling show window

Retail Price, Each.....\$7.45

CodeCEUFI

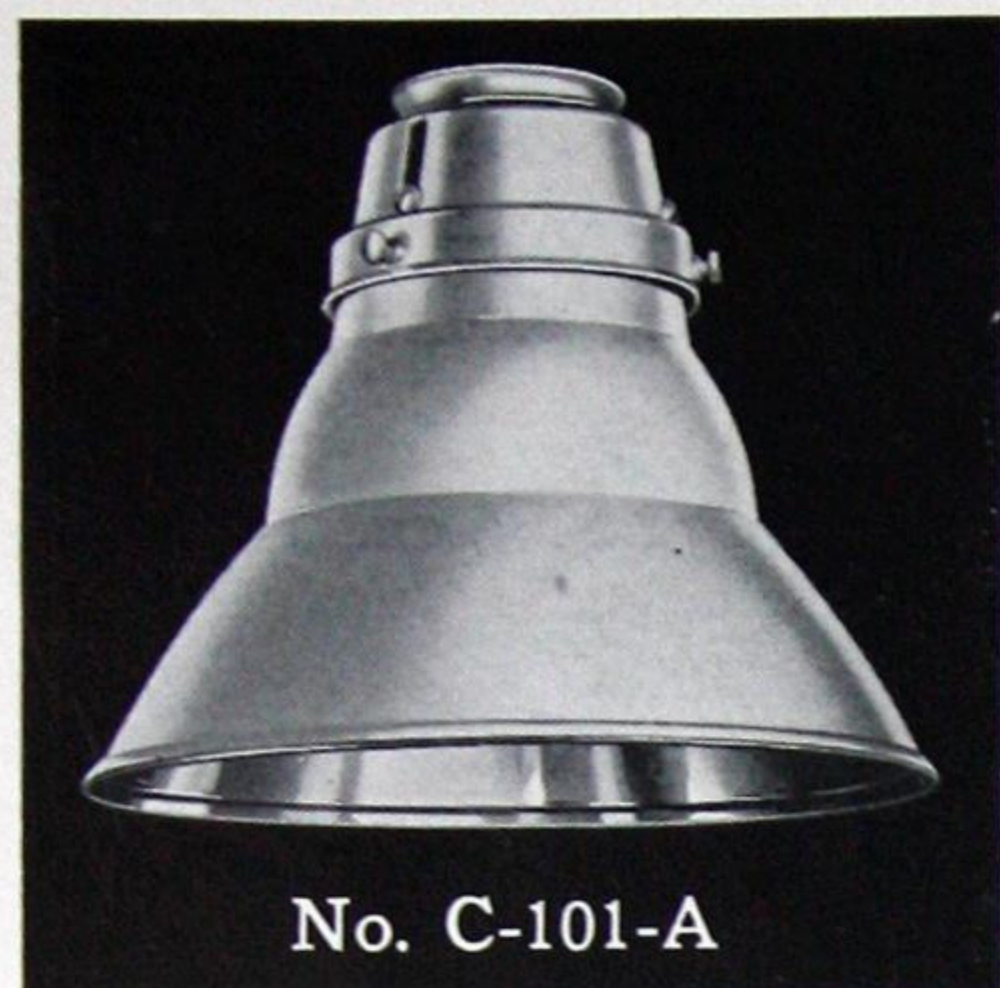
Ceiling Space Required—Same as for No. C-100-4.

Additional Equipment—for use with No. C-100-5.

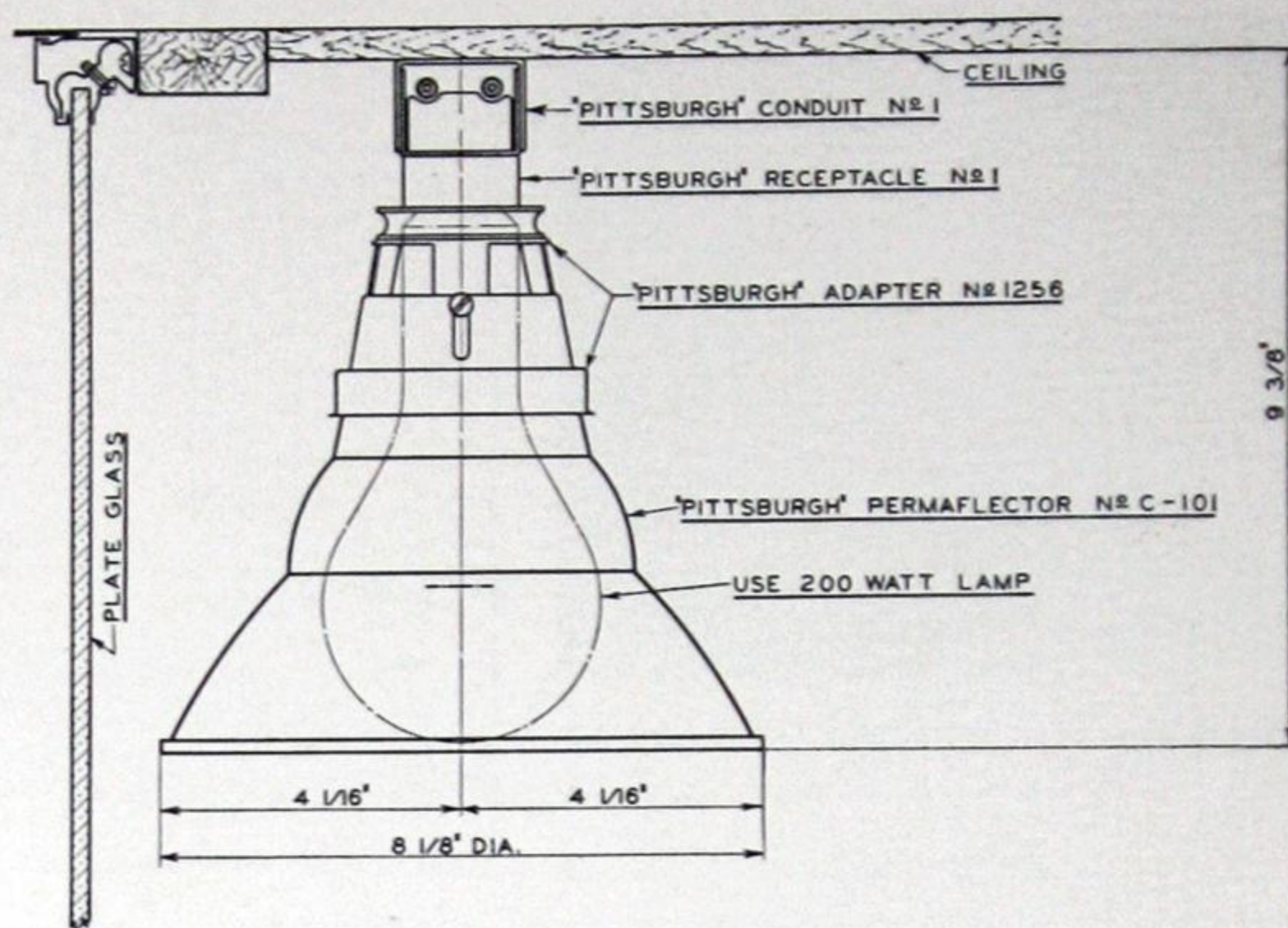
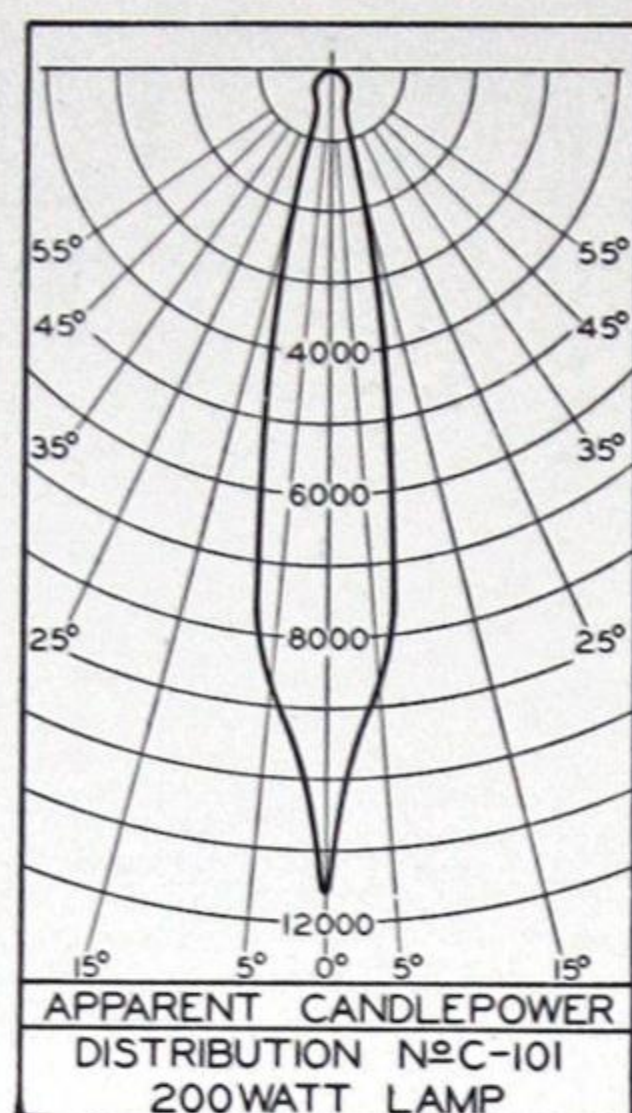
For Plaster Ceiling—Use Plaster Ring No. 1-B.



PERMAFLECTOR NO. C-101 SERIES



No. C-101-A



No. C-101-A External Mounting

Application—Excellent for recessing in ceiling of show window or store interior over displays requiring strong concentration of illumination. Used widely in jewelry stores.

C-101-GO is supplied with Floodlights Nos. FLC-103 and FLC-104.

Spacings on Centers:

For uniform illumination, should not exceed one-third the height of bottom of reflector above work plane.

Minimum Spacings: for

Mounting on Conduit No. 1 or No. 12—9 inches on centers.

Mounting on Knockout Strip No. KO-1—9 inches on centers.

Dimensions:

Height with Adapter No. 1256 Extended—7 3/8 inches.

Height with Adapter No. 1256 Compressed—6 1/8 inches.

Height Permaflector No. C-101-GO—5 1/8 inches.

Bottom Opening Circular—Diameter, 8 3/8 inches.

Lamp Size:

200 Watt PS-30, Adapter Extended.

150 Watt A-25, Adapter Compressed.

PERMAFLECTOR NO. C-101-A

Consists of:

Permaflector No. C-101-GO and Adapter No. 1256.

Standard Quantity—10

Weight, Approx. 16 lbs.

Retail Price, Each.....\$3.75

CodeSEHUNODA

Additional Equipment—for use with No. C-101-A.

May Be Installed With:

Outlet Box Cover Assembly No. B-1-3/4 or B-1-4.

May Be Mounted On:

Conduit No. 1 or Knockout Strip No. KO-1.

For Colored Lighting: Use

Color-Lite No. 6 or No. 6-DB for external mounting.

For Louvered Lighting: Use

Concentric Louver No. EM-55-C for external mounting.

PERMAFLECTOR NO. C-101-R

Consists of:

Permaflector No. C-101-GO and Adapter No. 1256-R for use where grooved porcelain sockets are installed.

Standard Quantity—10

Weight, Approx. 16 lbs.

Retail Price, Each.....\$3.75

CodeSEHUNODAR

Additional Equipment—for use with No. C-101-R.

May Be Mounted On—Conduit No. 12.

For Colored Lighting—Same as for No. C-101-A.

For Louvered Lighting—Same as for No. C-101-A.

COMBINATION NO. C-101-2

(For Recessed Installation)

Consists of:

Permaflector No. C-101-A.

Outlet Box Cover Assembly No. B-1-3/4.

Flush Mounting Ring No. C-100.

Standard Quantity—10

Weight, Approx. 26 lbs.

Retail Price, Each.....\$4.62

CodeSEHUNTU

Ceiling Space Required:

Space Above Ceiling Line—9 1/2 inches (Adapter Extended).

Opening to be Cut in Ceiling, Circular—Diam. 8 3/8 inches.

Additional Equipment—for use with No. C-101-2.

For Plaster Ceiling—Use Plaster Ring No. 55-A.

For Colored Lighting—Use Color-Lite No. 61 or No. 61-DB.

For Ceiling Roundel (Not Hinged)—Use

Ceiling Roundel No. 62 with or without Wire Guard

No. WG-1.

For Louvered Lighting—Use

Concentric Louver No. FM-55-C.

COMBINATION NO. C-101-4

(Hinged Ceiling Roundel Installation)

Consists of:

Permaflector No. C-101-A.

Outlet Box Cover Assembly No. B-1-3/4.

Hinged Ceiling Roundel No. 7-B.

Standard Quantity—10

Weight, Approx. 41 lbs.

Retail Price, Each.....\$7.95

CodeSEHUNFO

Ceiling Space Required:

Space Above Ceiling Line—9 7/8 inches (Adapter Extended).

Opening to be Cut in Ceiling, Circular—Diam., 9 3/4 inches.

Additional Equipment—for use with No. C-101-4.

For Plaster Ceiling—Use Plaster Ring No. 1-B.

For Protection of Roundel—Use Wire Guard No. WG-1.

COMBINATION NO. C-101-5

(Hinged Concentric Louver Installation)

Consists of:

Permaflector No. C-101-A.

Outlet Box Cover Assembly No. B-1-3/4.

Hinged Concentric Louver No. 7-B.

Standard Quantity—10

Weight, Approx. 34 lbs.

Retail Price, Each.....\$7.95

CodeSEHUNFI

Ceiling Space Required—Same as for No. C-101-4.

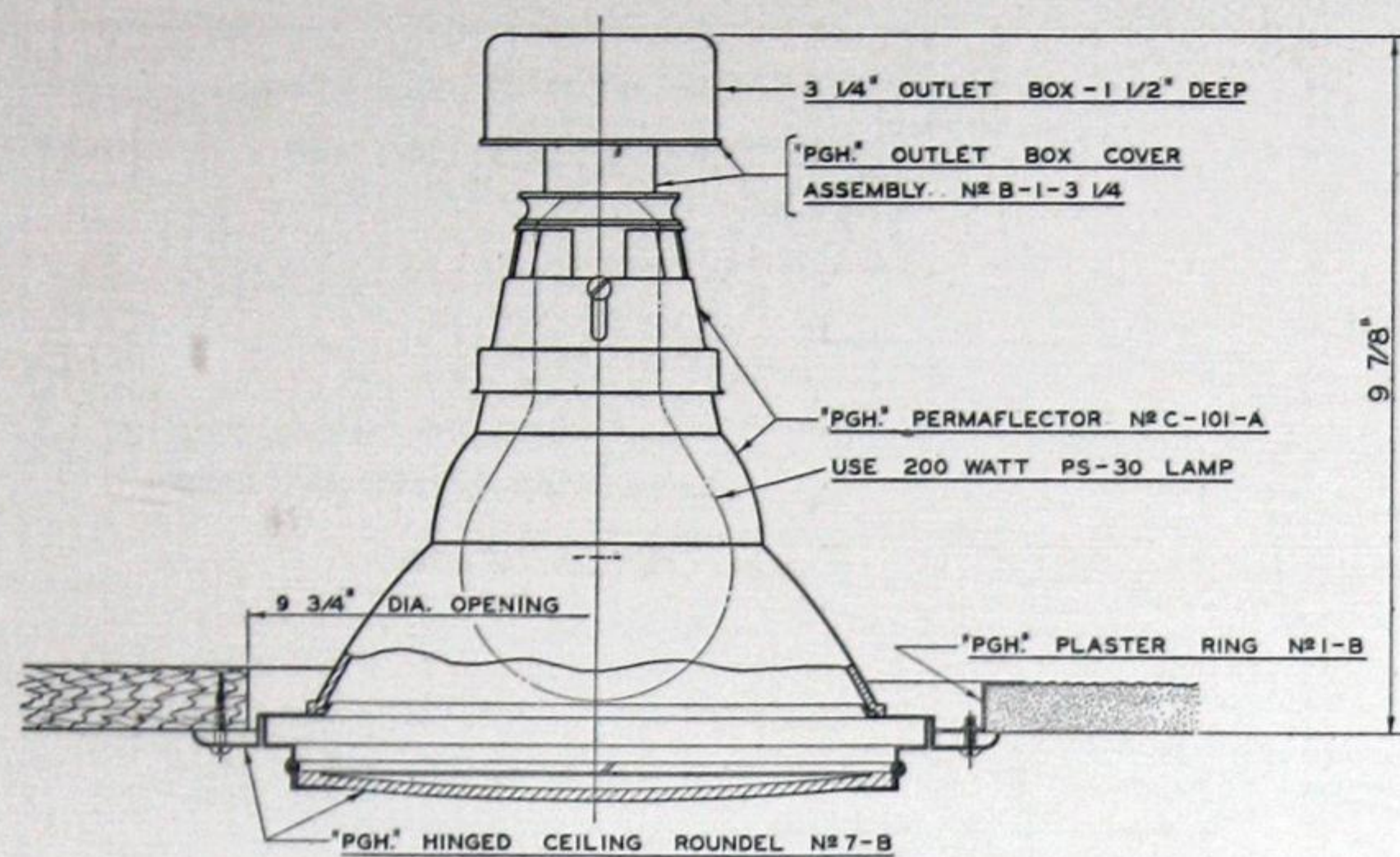
Additional Equipment—for use with No. C-101-5.

For Plaster Ceiling—Use Plaster Ring No. 1-B.



PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA

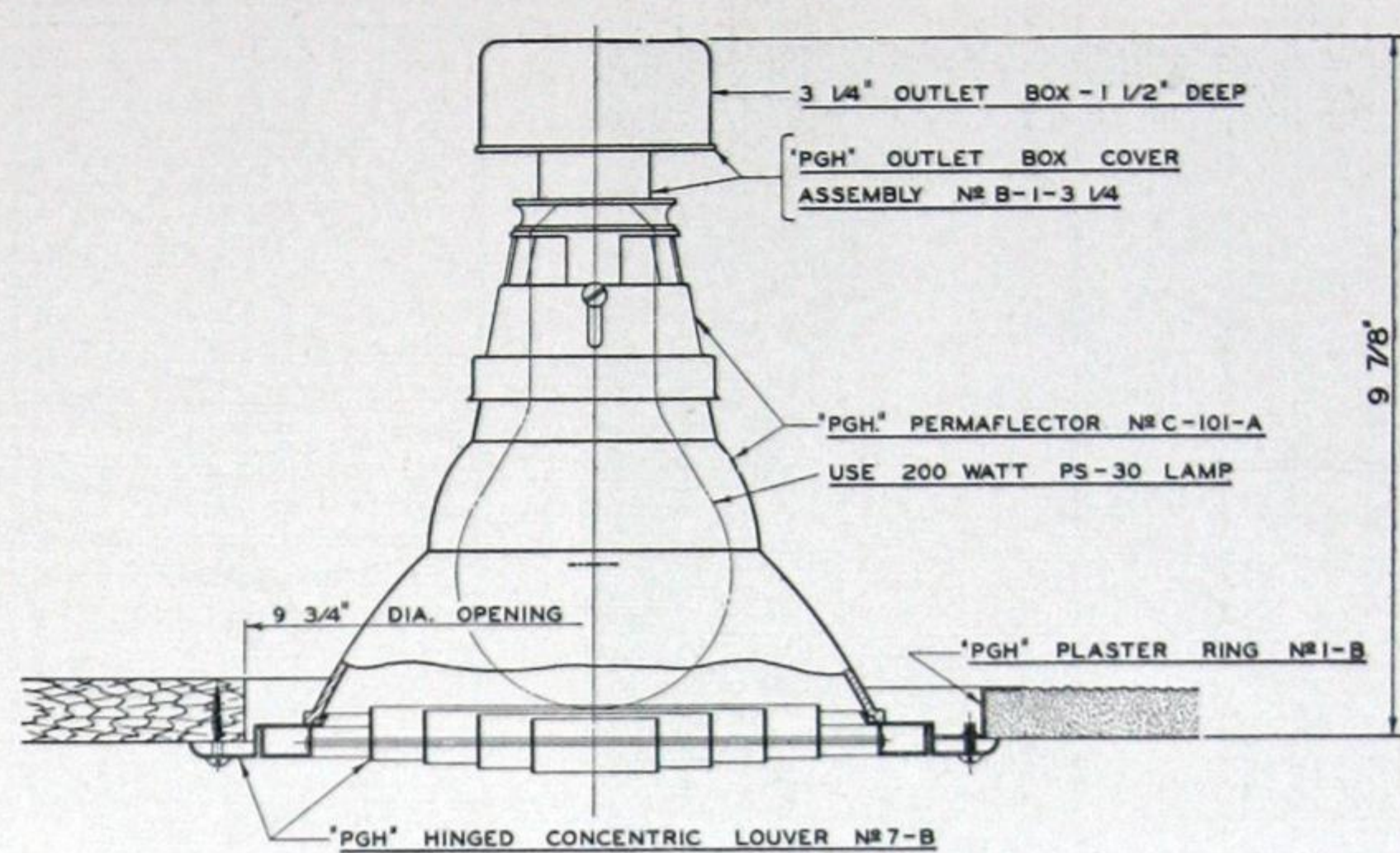
PERMAFLECTOR NO. C-101 SERIES



HALF SECTION
THRU WOOD CEILING

HALF SECTION
THRU PLASTER CEILING

No. C-101-4 Recessed in Ceiling



HALF SECTION
THRU WOOD CEILING

HALF SECTION
THRU PLASTER CEILING

No. C-101-5 Recessed in Ceiling

ENCLOSED COMBINATIONS

(For Recessed Installations)

(Use 200 Watt PS-30 Lamp)

Where mechanical protection of the recessed Permaflexor is necessary the addition of a spun aluminum housing ac-

complishes the object. We list and illustrate below our line of fully enclosed units for Permaflexor No. C-101-A.

COMBINATION NO. C-101-7

(With Hinged Ceiling Roundel)

Consists of:

- Permaflexor No. C-101-A.
- Spun Aluminum Housing.
- Porcelain Socket No. 1.
- 4" Octagonal Outlet Box, 1 5/8 inches deep.
- Hinged Ceiling Roundel No. 7-B.

Standard Quantity—1

Weight, Approx. 11 lbs.

Retail Price, Each.....\$12.25

CodeSEHUNSET

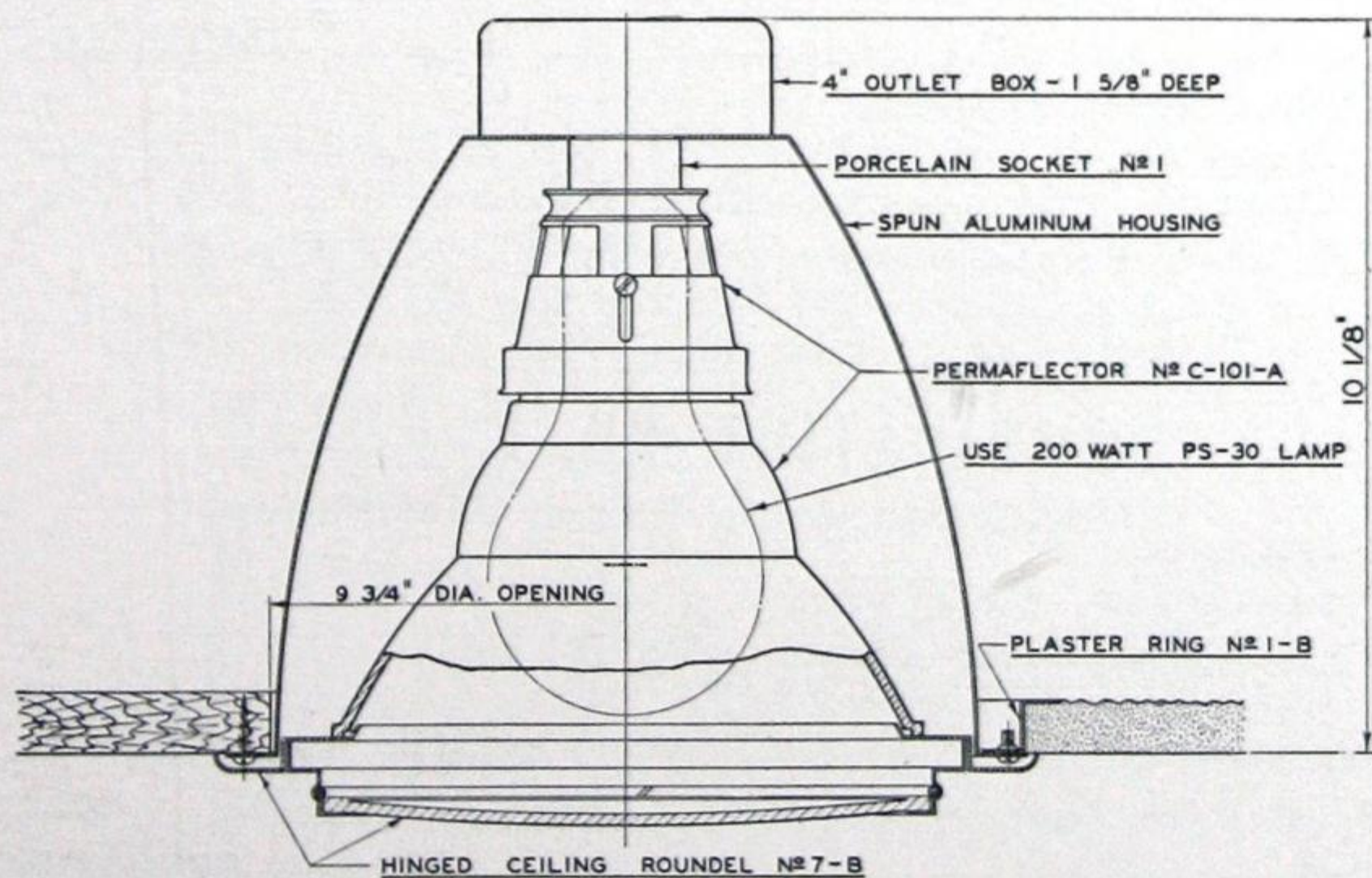
Ceiling Space Required:

- Space Above Ceiling Line—10 3/8 inches.
- Opening to be Cut in Ceiling, Circular—Diam., 9 3/4 inches.

Additional Equipment—for use with No. C-101-7.

For Plaster Ceiling—Use Plaster Ring No. 1-B.

For Protection of Roundel—Use Wire Guard No. WG-1.



HALF SECTION
THRU WOOD CEILING

HALF SECTION
THRU PLASTER CEILING

No. C-101-7 Recessed in Ceiling

COMBINATION NO. C-101-8

(With Hinged Concentric Louver)

Consists of:

- Permaflexor No. C-101-A.
- Spun Aluminum Housing.
- Porcelain Socket No. 1.
- 4" Octagonal Outlet Box, 1 5/8 inches deep.
- Hinged Concentric Louver No. 7-B.

Standard Quantity—1

Weight, Approx. 10 lbs.

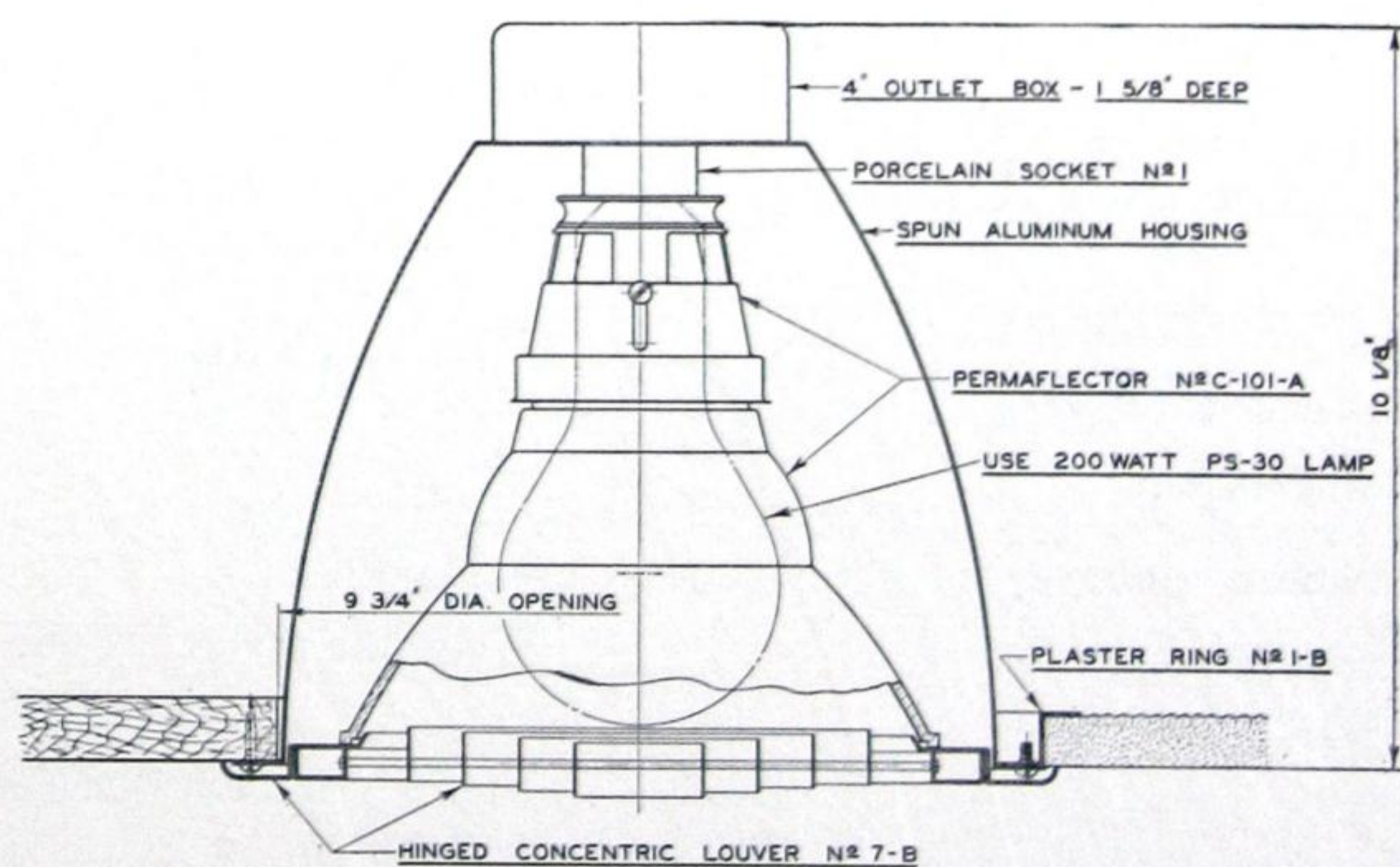
Retail Price, Each.....\$12.25

CodeSEHUNAT

Ceiling Space Required—Same as for No. C-101-7.

Additional Equipment—for use with No. C-101-8.

For Plaster Ceiling—Use Plaster Ring No. 1-B.

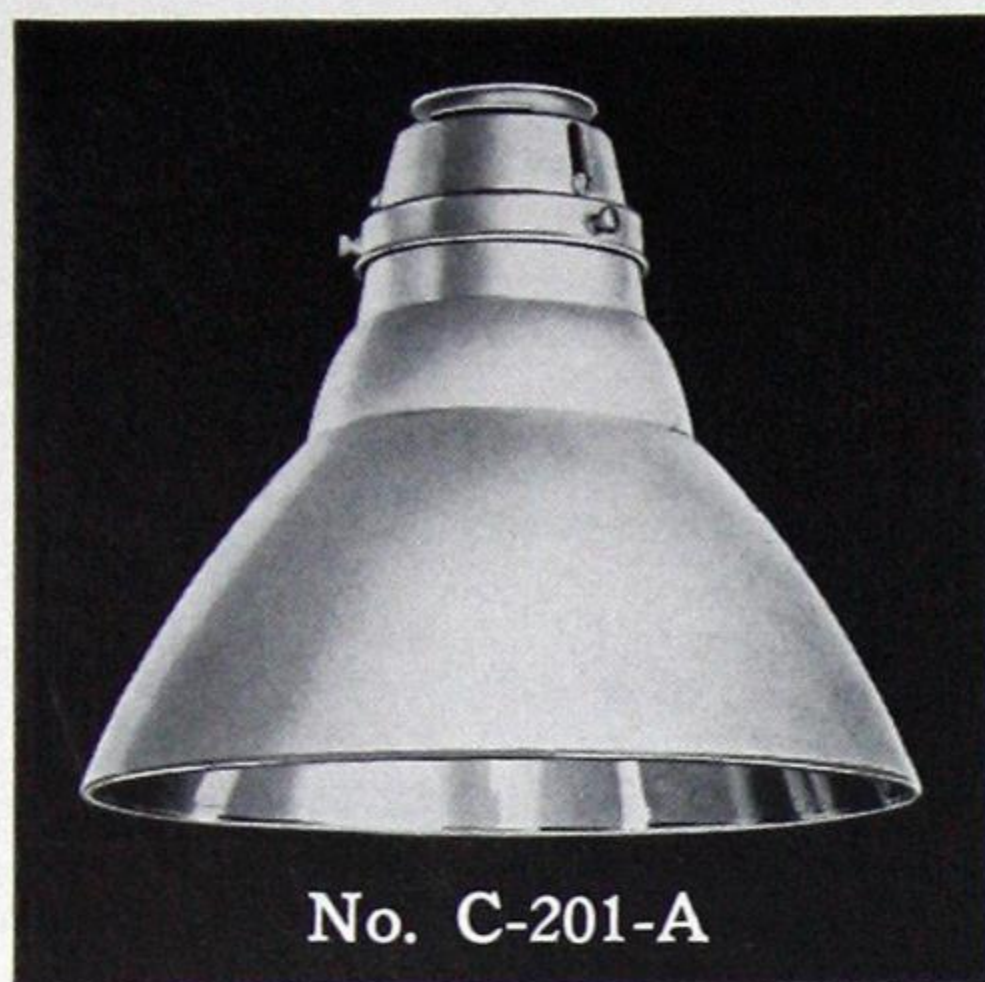


HALF SECTION
THRU WOOD CEILING

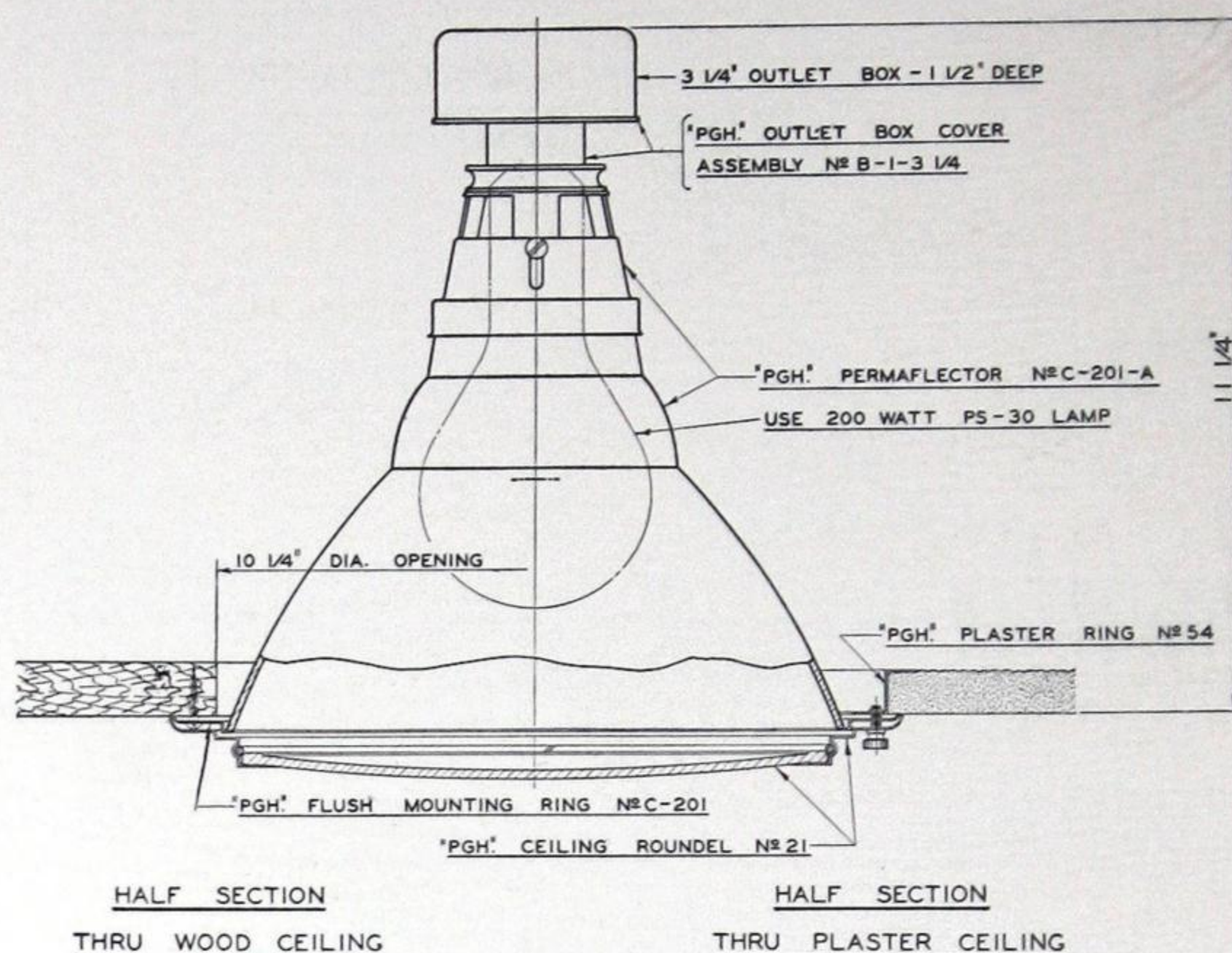
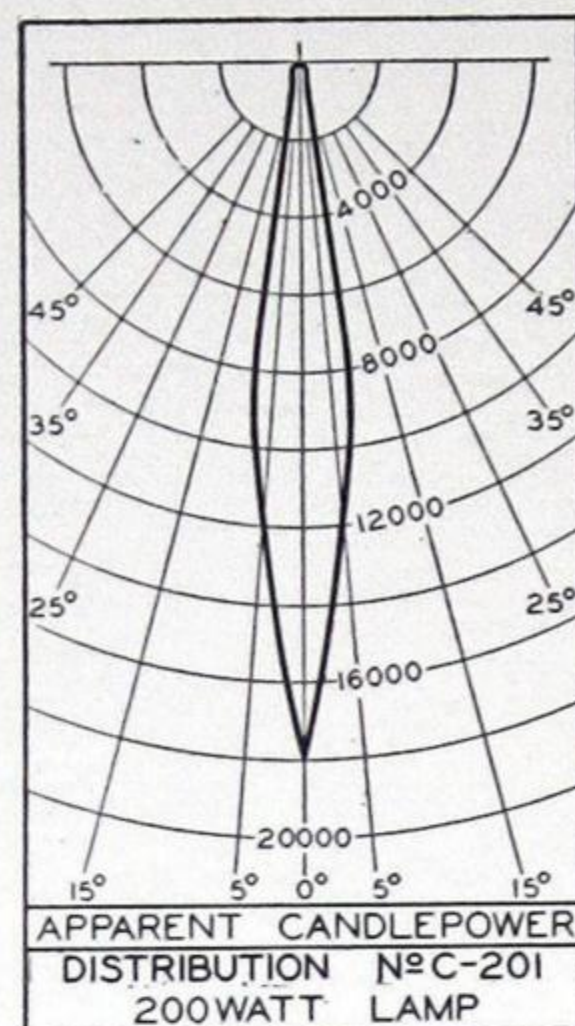
HALF SECTION
THRU PLASTER CEILING

No. C-101-8 Recessed in Ceiling

PERMAFLECTOR NO. C-201 SERIES



No. C-201-A



No. C-201-2 Recessed in Ceiling with Ceiling Roundel No. 21

COMBINATION NO. C-201-2

(For Recessed Installation)

Consists of:

Permaflector No. C-201-A.
Outlet Box Cover Assembly No. B-1-3/4.
Flush Mounting Ring No. C-201.

Standard Quantity—9

Weight, Approx. 30 lbs.

Retail Price, Each.....\$5.60

CodeSETWONTU

Ceiling Space Required:

Space Above Ceiling Line—11 1/4 inches (Adapter Extended).
Opening to be Cut in Ceiling, Circular—Diam. 10 1/4 inches.

Additional Equipment—for use with No. C-201-2.

For Plaster Ceiling—Use Plaster Ring No. 54.
For Colored Lighting—Use Color-Lite No. 21 or No. 21-DB.
For Ceiling Roundel (Not Hinged)—Use Ceiling Roundel No. 21 with or without Wire Guard No. WG-6.
For Louvered Lighting: Use Parallel Louver No. FM-54.
Concentric Louver No. FM-54-C.
Egg Crate Louver No. FEC-200.

COMBINATION NO. C-201-4

(Hinged Ceiling Roundel Installation)

Consists of:

Permaflector No. C-201-A.
Outlet Box Cover Assembly No. B-1-3/4.
Hinged Ceiling Roundel No. B.

Standard Quantity—9

Weight, Approx. 56 lbs.

Retail Price, Each.....\$9.95

CodeSETWONFO

Ceiling Space Required:

Space Above Ceiling Line—11 1/4 inches (Adapter Extended).
Opening to be Cut in Ceiling, Circular—Diam., 12 1/2 inches.

Additional Equipment—for use with No. C-201-4.

For Plaster Ceiling—Use Plaster Ring No. 8-B.
For Protection of Roundel—Use Wire Guard No. WG-8.

COMBINATION NO. C-201-5

(Hinged Concentric Louver Installation)

Consists of:

Permaflector No. C-201-A.
Outlet Box Cover Assembly No. B-1-3/4.
Hinged Concentric Louver No. 8-B.

Standard Quantity—9

Weight, Approx. 44 lbs.

Retail Price, Each.....\$9.45

CodeSETWONFI

Ceiling Space Required—Same as for No. C-201-4.

Additional Equipment—for use with No. C-201-5.

For Plaster Ceiling—Use Plaster Ring No. 8-B.

Application—This is Permaflector used with Spot WS-200. Excellent for recessing in ceiling with flush mounting ring and concentric louver in show window or store interior over displays requiring strong illumination. Very good for cove lighting where a narrow beam for long throw is required. Widely used for lighting through skylights in art galleries and other public buildings.

Spacings on Centers:

For uniform illumination, should not exceed one-third the height of bottom of reflector above work plane.

Minimum Spacings: for

Mounting on Conduit No. 1 or No. 12—10 1/2 inches on centers.
Mounting on Knockout Strip No. KO-1—12 inches on centers.

Dimensions:

Height with Adapter No. 1256 Extended—9 1/4 inches.
Height with Adapter No. 1256 Compressed—8 1/8 inches.
Height Permaflector No. C-201-GO—7 inches.
Bottom Opening Circular—Diameter, 10 inches.

Lamp Size—

200 Watt PS-30, Adapter Extended.
150 Watt A-25, Adapter Compressed.

PERMAFLECTOR NO. C-201-A

Consists of:

Permaflector No. C-201-GO and Adapter No. 1256.

Standard Quantity—9

Weight, Approx. 22 lbs.

Retail Price, Each.....\$4.50

CodeSETUWONAYE

Additional Equipment—for use with No. C-201-A.

May Be Installed With:

Outlet Box Cover Assembly No. B-1-3/4 or B-1-4.

May Be Mounted On:

Conduit No. 1 or Knockout Strip No. KO-1.

For Colored Lighting: Use

Color-Lite No. 2 or No. 2-DB for external mounting.

For Louvered Lighting: Use

Parallel Louver No. EM-54 for external mounting.
Concentric Louver No. EM-54-C for external mounting.

PERMAFLECTOR NO. C-201-R

Consists of:

Permaflector No. C-201-GO and Adapter No. 1256-R for use where grooved porcelain sockets are installed.

Standard Quantity—9

Weight, Approx. 22 lbs.

Retail Price, Each.....\$4.50

CodeSETUONER

Additional Equipment—for use with No. C-201-R.

May Be Mounted On—Conduit No. 12.

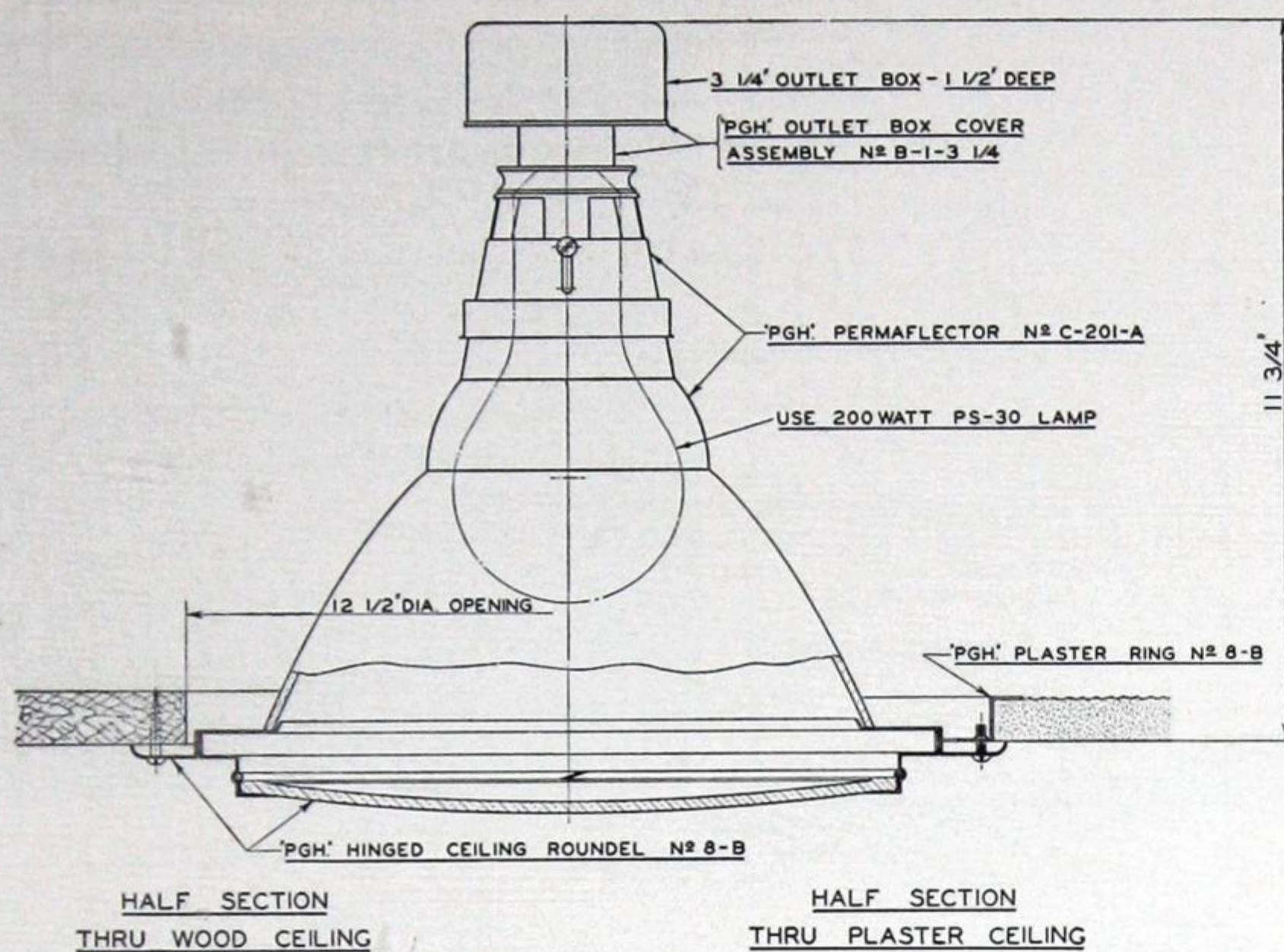
For Colored Lighting—Same as for No. C-201-A.

For Louvered Lighting—Same as for No. C-201-A.

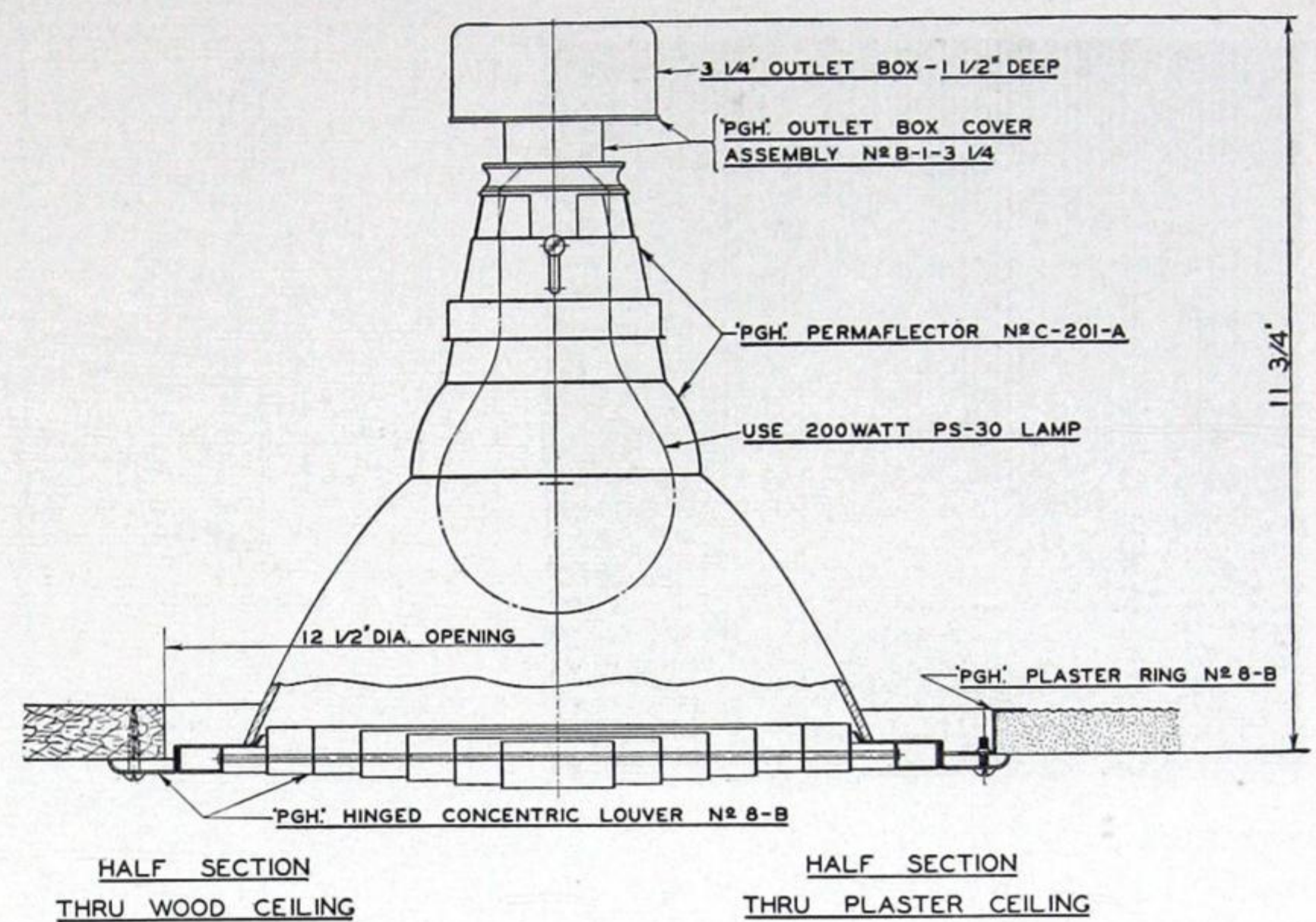


PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA

PERMAFLECTOR NO. C-201 SERIES



No. C-201-4 Recessed in Ceiling



No. C-201-5 Recessed in Ceiling

ENCLOSED COMBINATIONS

(For Recessed Installations)

(Use 200 Watt PS-30 Lamp)

Where mechanical protection of the recessed Permaflexor is necessary, the addition of a spun aluminum housing accom-

plishes the object. We list and illustrate below our line of fully enclosed units for Permaflexor No. C-201-A.

COMBINATION NO. C-201-7

(With Hinged Ceiling Roundel)

Consists of:

- Permaflexor No. C-201-A.
- Spun Aluminum Housing.
- Porcelain Socket No. 1.
- 4" Octagonal Outlet Box, 1 5/8 inches deep.
- Hinged Ceiling Roundel No. 8-B.

Standard Quantity—1

Weight, Approx. 11 lbs.

Retail Price, Each.....\$17.00

CodeSETWONSET

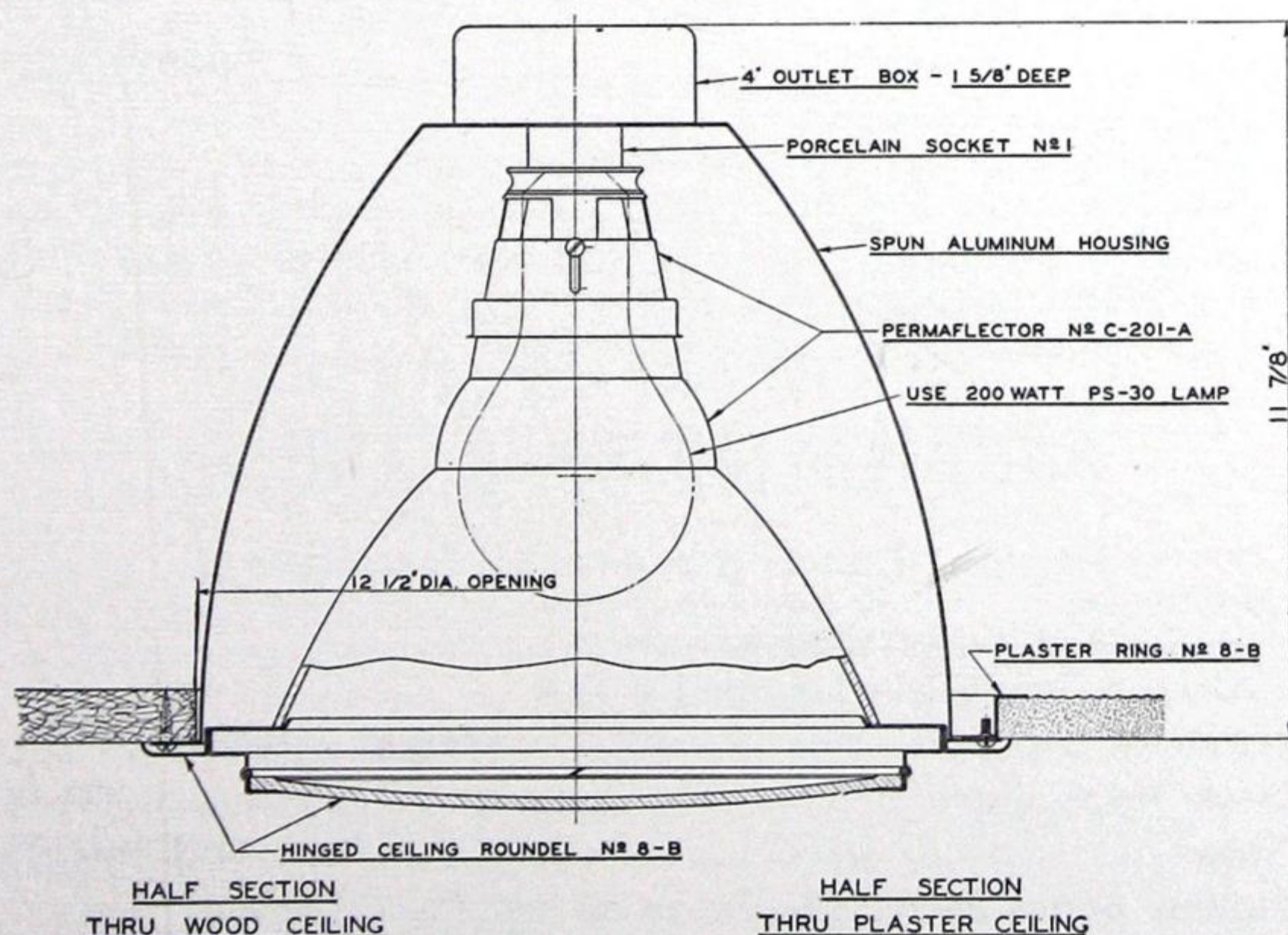
Ceiling Space Required:

- Space Above Ceiling Line—11 7/8 inches.
- Opening to be Cut in Ceiling, Circular—Diam., 12 1/2 inches.

Additional Equipment—for use with No. C-201-7.

For Plaster Ceiling—Use Plaster Ring No. 8-B.

For Protection of Roundel—Use Wire Guard No. WG-8.



No. C-201-7 Recessed in Ceiling

COMBINATION NO. C-201-8

(With Hinged Concentric Louver)

Consists of:

- Permaflexor No. C-201-A.
- Spun Aluminum Housing.
- Porcelain Socket No. 1.
- 4" Octagonal Outlet Box, 1 5/8 inches deep.
- Hinged Concentric Louver No. 8-B.

Standard Quantity—1

Weight, Approx. 10 lbs.

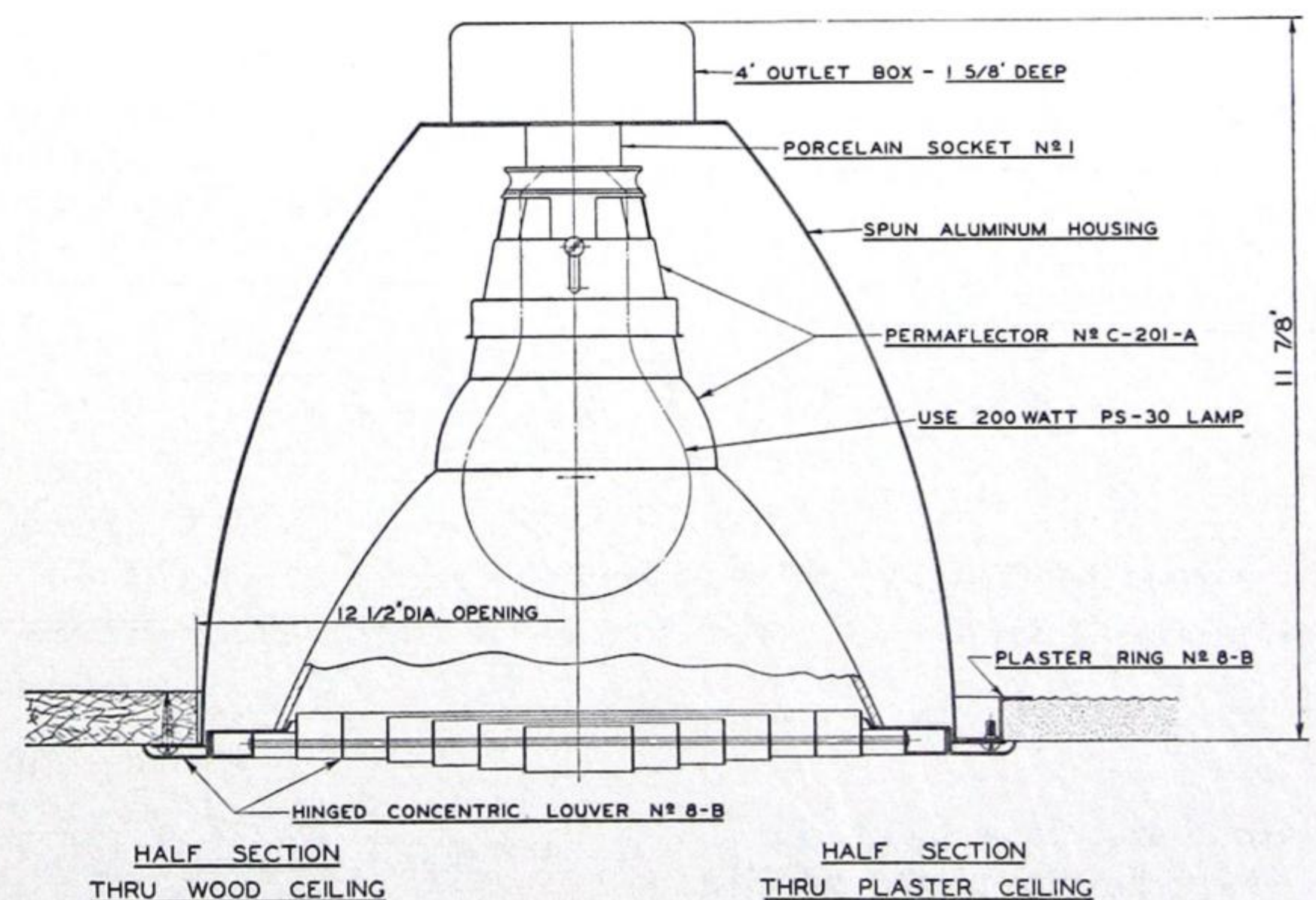
Retail Price, Each.....\$16.50

CodeSETWONAT

Ceiling Space Required—Same as for No. C-201-7.

Additional Equipment—for use with No. C-201-8.

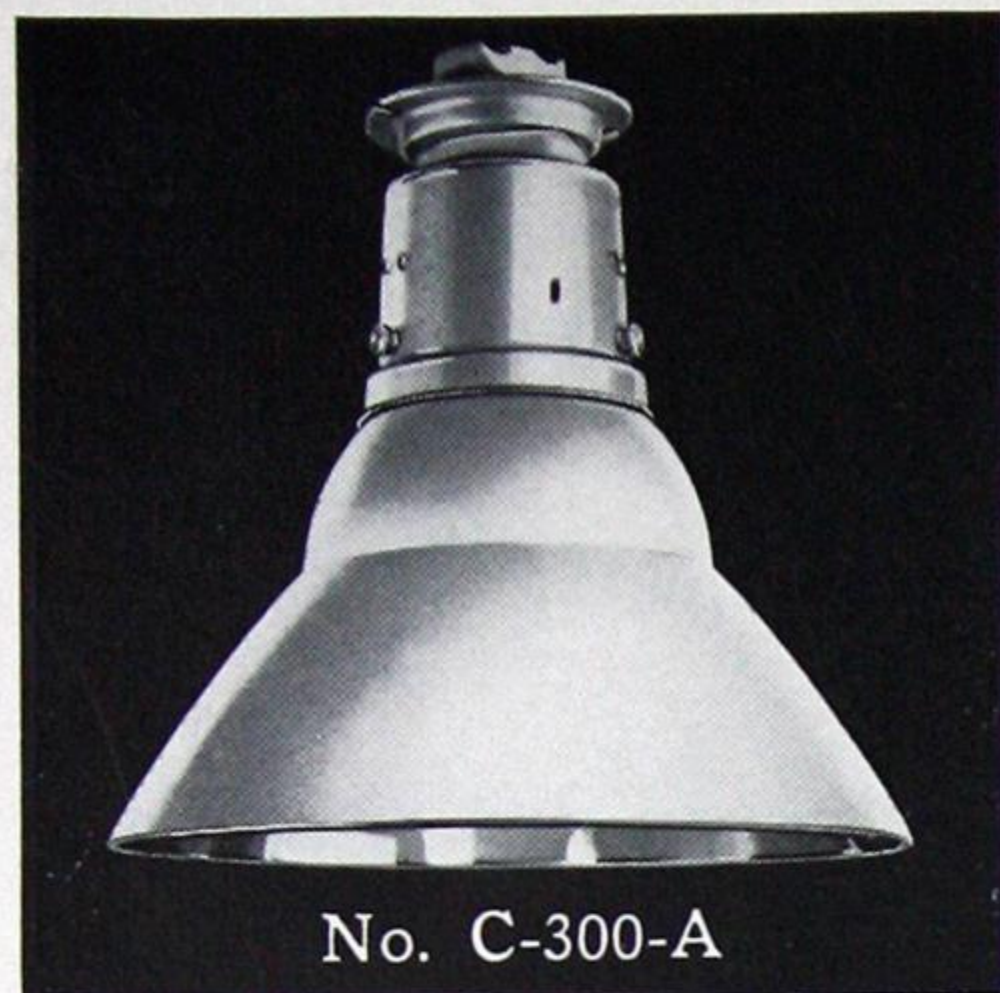
For Plaster Ceiling—Use Plaster Ring No. 8-B.



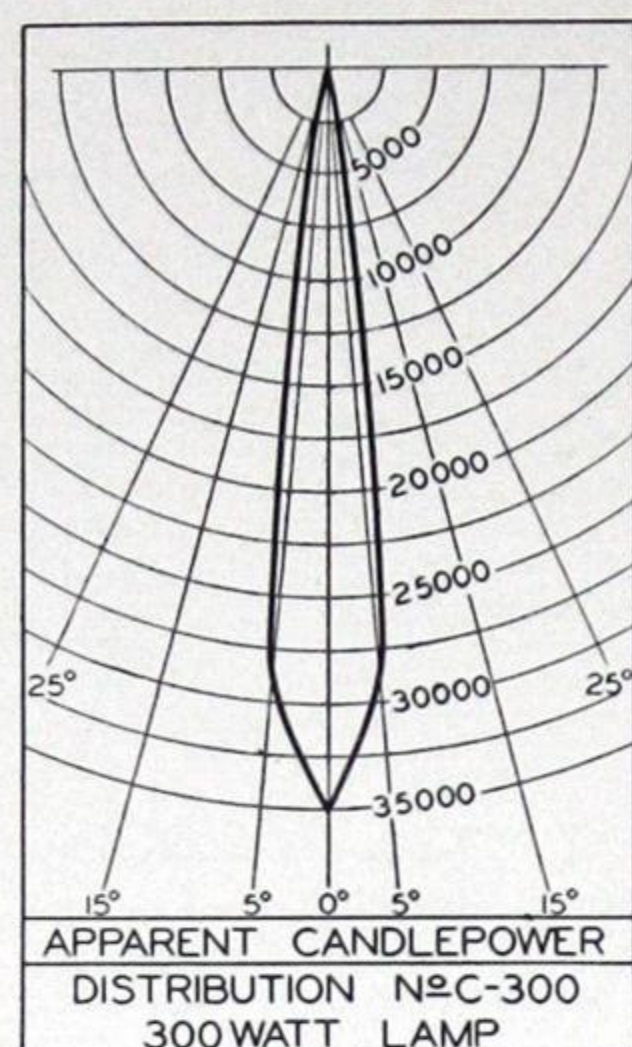
No. C-201-8 Recessed in Ceiling



PERMAFLECTOR NO. C-300 SERIES



No. C-300-A



Application—This is Permalector used with Spot WS-300. A good unit for recessing in the ceiling with flush mounting ring and concentric louver or hinged ceiling roundel. Delivers intense illumination over limited area. Excellent for lighting through skylights in art galleries and other public buildings.

Spacings on Centers:

For uniform illumination, should not exceed one-third the height of bottom of reflector above work plane

Lamp Size—300 Watt PS-35.

Dimensions:

Height Permalector No. C-300-GO—6¾ inches.
Bottom Opening Circular—Diameter, 11½ inches.

PERMAFLECTOR NO. C-300-A

Consists of:

Permalector No. C-300-GO.
Outlet Box Cover Assembly No. B-3.
Holder No. 12-A.

Attaches to any standard 4" Outlet Box, 1½ inches deep.

Standard Quantity—1

Weight, Approx. 5½ lbs.

Retail Price, Each:

Permalector No. C-300-A.....\$10.00
Permalector No. C-300-GO (Glass Only).....\$6.75

Code: Permalector No. C-300.....**SETREHUNA**

Permalector No. C-300-GO.....**SEETREEHUN**

Additional Equipment—for use with No. C-300-A.

May Be Mounted On:

Conduit No. 6, in which case discard outlet box cover.

For Colored Lighting: Use

Color-Lite No. 10 or No. 10-DB for external mounting.

For Louvered Lighting: Use

Parallel Louver No. EME-500 for external mounting.

Concentric Louver No. EME-500-C for external mounting.

PERMAFLECTOR NO. C-300-B

Consists of:

Permalector No. C-300-GO.
Porcelain Mogul Socket No. 4.
Holder No. 12-A.

Box No. KO-11—For attaching to ½" conduit stem.

Standard Quantity—1

Weight, Approx. 5½ lbs.

Retail Price, Each.....\$10.00

Code.....**SETREHUNBI**

Additional Equipment—for use with No. C-300-B.

For Colored Lighting—Same as for No. C-300-A.

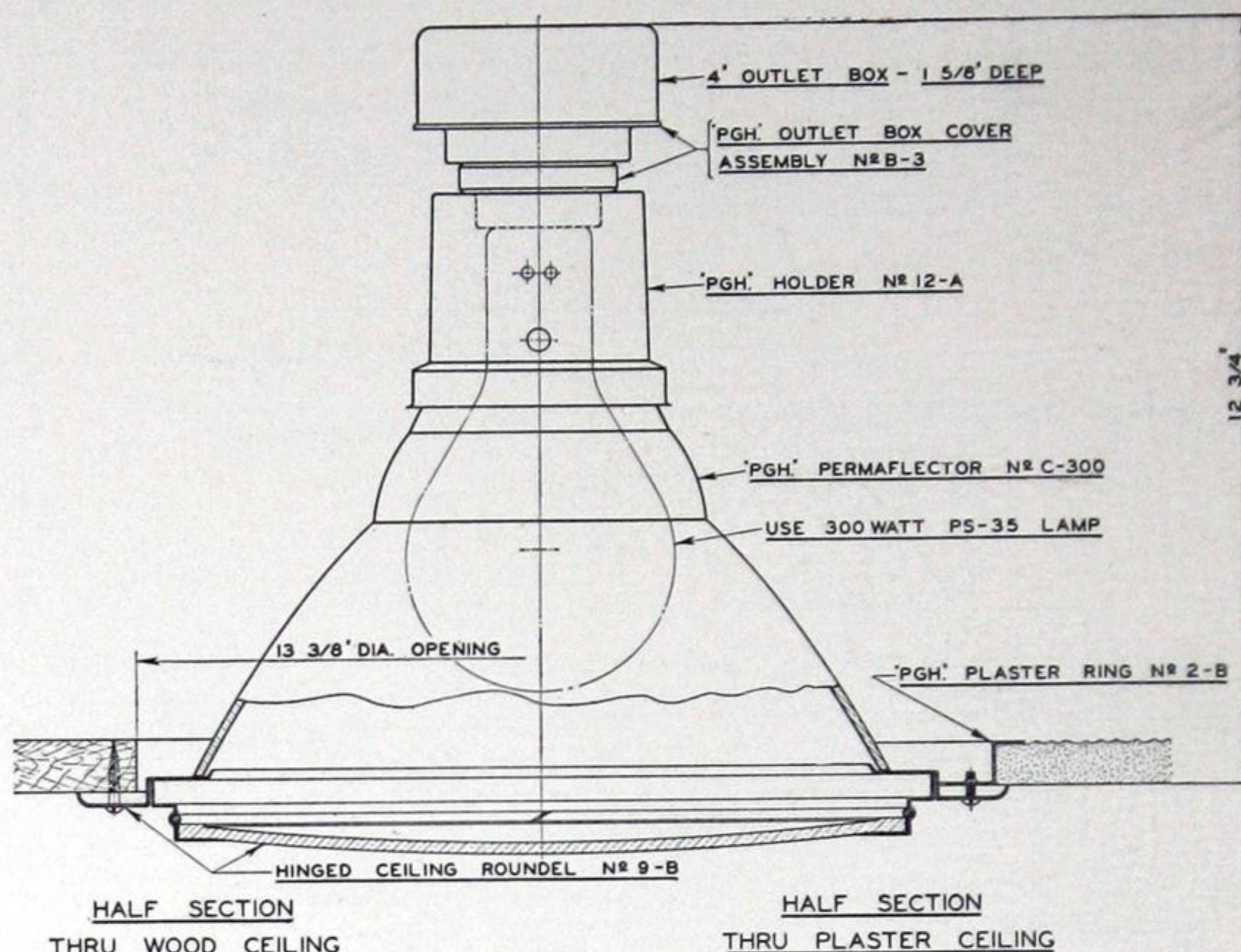
For Louvered Lighting—Same as for No. C-300-A.

THREE-LIGHT EQUIPMENT

The substitution of Three-Light Mogul Socket No. 5 for Standard Mogul Socket No. 4, converts the following items for use with:

150-200-350 Watt PS-35 Three-Light Lamp.

Catalog No.	Std. Quan.	Retail Price Each	Code
Permalector No. C-300-A, 3-Light	1	\$10.25	SETREUNTRA
Permalector No. C-300-B, 3-Light	1	10.25	SETRENTREB
Combination No. C-300-2, 3-Light	1	11.45	SETRUNTURE
Combination No. C-300-4, 3-Light	1	18.75	SETRUNFORE
Combination No. C-300-5, 3-Light	1	15.75	SETRUNFIRE



C-300-4 Recessed in Ceiling

COMBINATION NO. C-300-2

(For Recessed Installation)

Consists of:

Permalector No. C-300-A.
Flush Mounting Ring No. C-300.

Standard Quantity—1

Weight, Approx. 6 lbs.

Retail Price, Each.....\$11.20

Code.....**SETRUNTU**

Ceiling Space Required:

Space Above Ceiling Line—12¾ inches.

Opening to be Cut in Ceiling, Circular—Diam., 11¼ inches.

Additional Equipment—for use with No. C-300-2.

For Plaster Ceiling—Use Plaster Ring No. 555.

For Colored Lighting—Use Color-Lite No. 81.

For Ceiling Roundel (Not Hinged)—Use

Ceiling Roundel No. 81 with or without Wire Guard No. WG-2.

For Louvered Lighting—Use

Parallel Louver No. FME-500.

Concentric Louver No. FME-500-C.

Egg Crate Louver No. FEC-300.

COMBINATION NO. C-300-4

(Hinged Ceiling Roundel Installation)

Consists of:

Permalector No. C-300-A.
Hinged Ceiling Roundel No. 9-B.

Standard Quantity—1

Weight, Approx. 15 lbs.

Retail Price, Each.....\$18.50

Code.....**SETRUNFO**

Ceiling Space Required:

Space Above Ceiling Line—12¾ inches.

Opening to be Cut in Ceiling, Circular—Diam., 13¾ inches.

Additional Equipment—for use with No. C-300-4.

For Plaster Ceiling—Use Plaster Ring No. 2-B.

For Protection of Roundel—Use Wire Guard No. WG-2.

COMBINATION NO. C-300-5

(Hinged Concentric Louver Installation)

Consists of:

Permalector No. C-300-A.
Hinged Concentric Louver No. 9-B.

Standard Quantity—1

Weight, Approx. 13 lbs.

Retail Price, Each.....\$15.50

Code.....**SETRUNFI**

Ceiling Space Required—Same as for No. C-300-4.

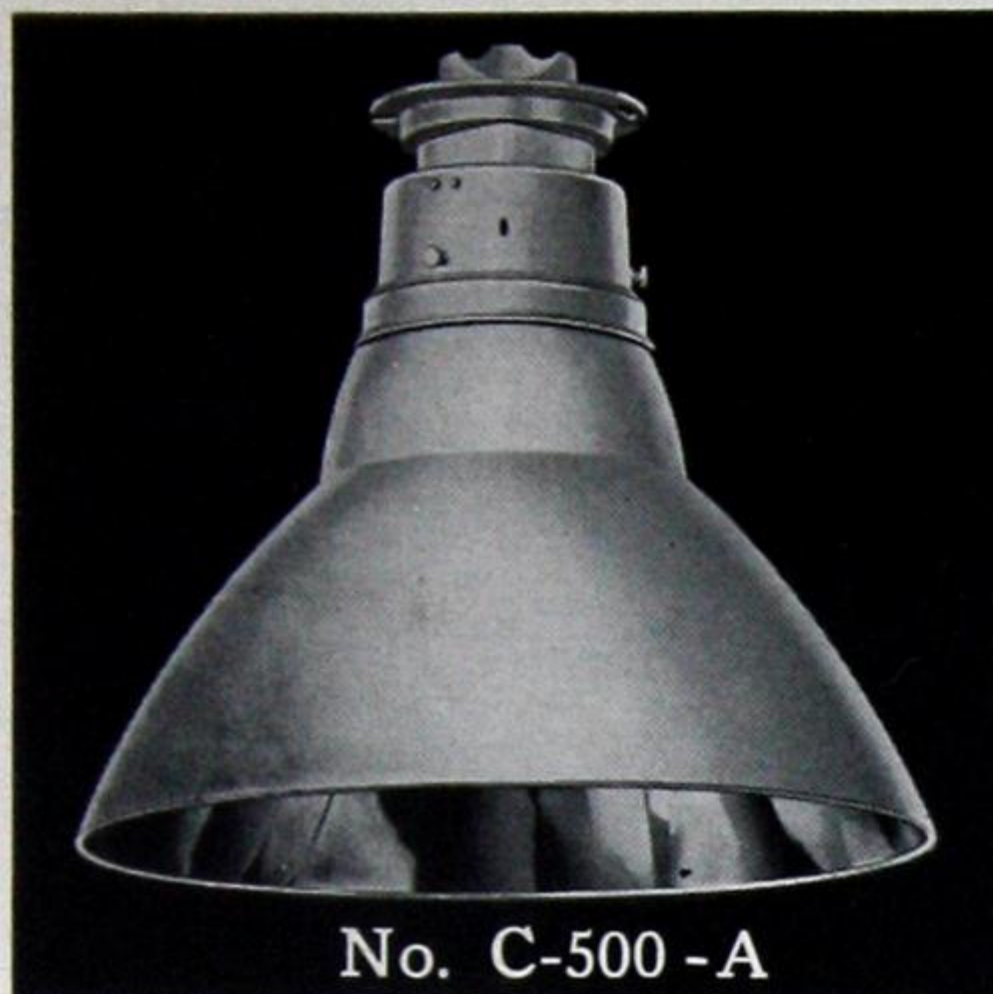
Additional Equipment—for use with No. C-300-5.

For Plaster Ceiling—Use Plaster Ring No. 2-B.

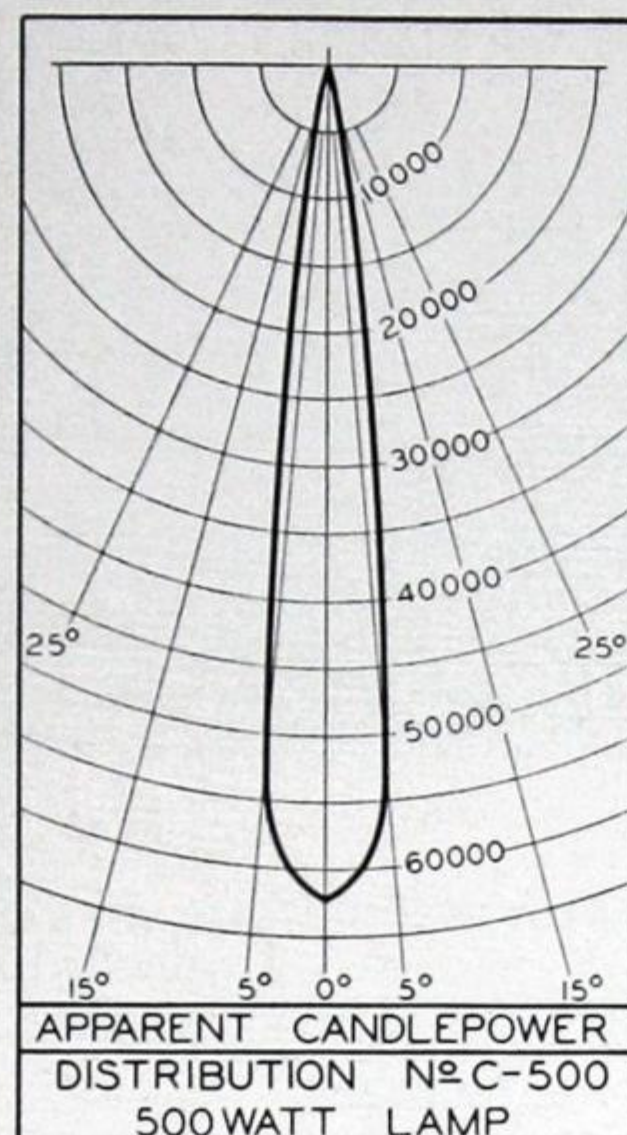


PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA

PERMAFLECTOR NO. C-500 SERIES



No. C-500-A



Application—This is Permalector used with Spot WS-500. Delivers intense illumination over limited area. Excellent for lighting through skylights in art galleries and other public buildings.

Spacings on Centers:

For uniform illumination, should not exceed one-third the height of bottom of reflector above work plane.

Lamp Size: 500 Watt PS-40 or 300 Watt PS-35.

Dimensions:

Height Permalector No. C-500-GO—9 inches.

Bottom Opening Circular—Diameter 13½ inches.

PERMAFLECTOR NO. C-500-A

Consists of:

Permalector No. C-500-GO.

Outlet Box Cover Assembly No. B-3.

Holder No. M-3.

Attaches to any standard 4" Outlet Box, 1½ inches deep.

Standard Quantity—1

Weight, Approx. 8 lbs.

Retail Price, Each:

Permalector No. C-500-A.....\$9.75

Permalector No. C-500-GO (Glass Only).....\$7.90

Code: Permalector No. C-500-A.....SEEFIVA

Permalector No. C-500-GO.....WINSPIGLA

Additional Equipment—for use with C-500-A.

May Be Mounted On:

Conduit No. 6, in which case discard outlet box cover.

For Colored Lighting: Use

Color-Lite No. 8 for external mounting.

PERMAFLECTOR NO. C-500-B

Consists of:

Permalector No. C-500-GO.

Porcelain Mogul Socket No. 4.

Holder No. M-3.

Box No. KO-11—for attaching to ½" conduit stem.

Standard Quantity—1

Weight, Approx. 8 lbs.

Retail Price, Each.....\$9.75

Code.....SEEFIBEE

Additional Equipment—for use with No. C-500-B.

For Colored Lighting—Same as for No. C-500-A.

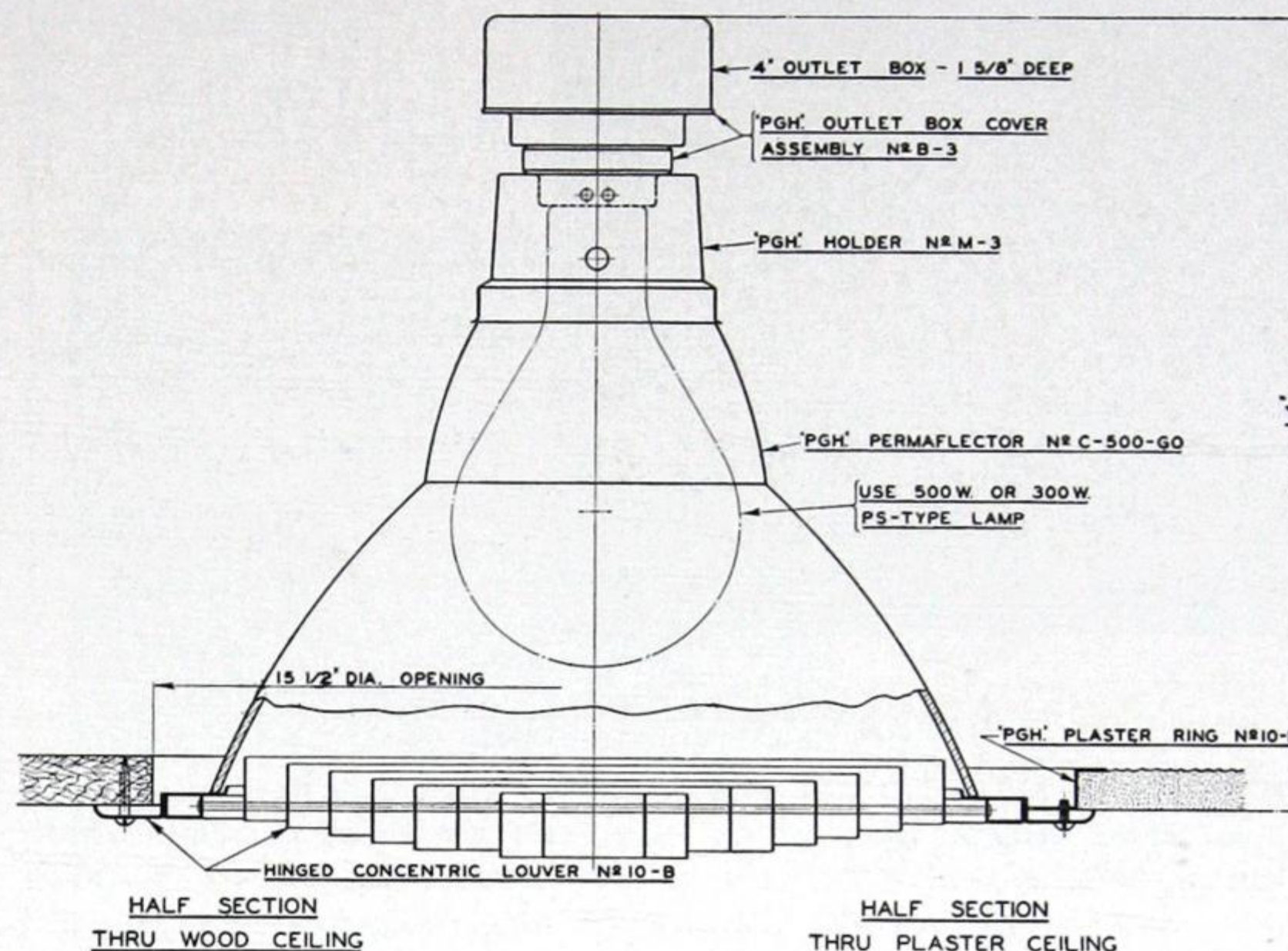
THREE-LIGHT EQUIPMENT

The substitution of Three-Light Mogul Socket No. 5 for Standard Mogul Socket No. 4, converts the following items for use with:

200-300-500 Watt PS-40, Three-Light Lamp or

150-200-350 Watt PS-35, Three-Light Lamp

Catalog No.	Std. Quan.	Retail Price Each	Code
Permalector No. C-500-A, 3-Light	1	\$10.00	SEEFITREA
Permalector No. C-500-B, 3-Light	1	10.00	SEEFITREB
Combination No. C-500-2, 3-Light	1	11.50	SEFUNTUTRE
Combination No. C-500-4, 3-Light	1	21.00	SEFUNFOTRE
Combination No. C-500-5, 3-Light	1	17.00	SEFUNFITRE



C-500-5 Recessed in Ceiling

COMBINATION NO. C-500-2

(For Recessed Installation)

Consists of:

Permalector No. C-500-A.

Flush Mounting Ring No. C-500.

Standard Quantity—1

Weight, Approx. 9 lbs.

Retail Price, Each.....\$11.25

Code.....SEFUNTU

Ceiling Space Required:

Space Above Ceiling Line—13½ inches.

Opening to be Cut in Ceiling, Circular—Diam., 13¾ inches.

Additional Equipment—for use with No. C-500-2.

For Plaster Ceiling—Use Plaster Ring No. C-500.

For Louvered Lighting—Use

Concentric Louver No. FMC-500-C.

COMBINATION NO. C-500-4

(Hinged Ceiling Roundel Installation)

Consists of:

Permalector No. C-500-A.

Hinged Ceiling Roundel No. 10-B.

Standard Quantity—1

Weight, Approx. 16 lbs.

Retail Price, Each.....\$20.75

Code.....SEFUNFO

Ceiling Space Required:

Space Above Ceiling Line—14 inches.

Opening to be Cut in Ceiling, Circular—Diam., 15½ inches.

Additional Equipment—for use with No. C-500-4.

For Plaster Ceiling—Use Plaster Ring No. 10-B.

For Protection of Roundel—Use Wire Guard No. WG-10.

COMBINATION NO. C-500-5

(Hinged Concentric Louver Installation)

Consists of:

Permalector No. C-500-A.

Hinged Concentric Louver No. 10-B.

Standard Quantity—1

Weight, Approx. 19 lbs.

Retail Price, Each.....\$16.75

Code.....SEFUNFI

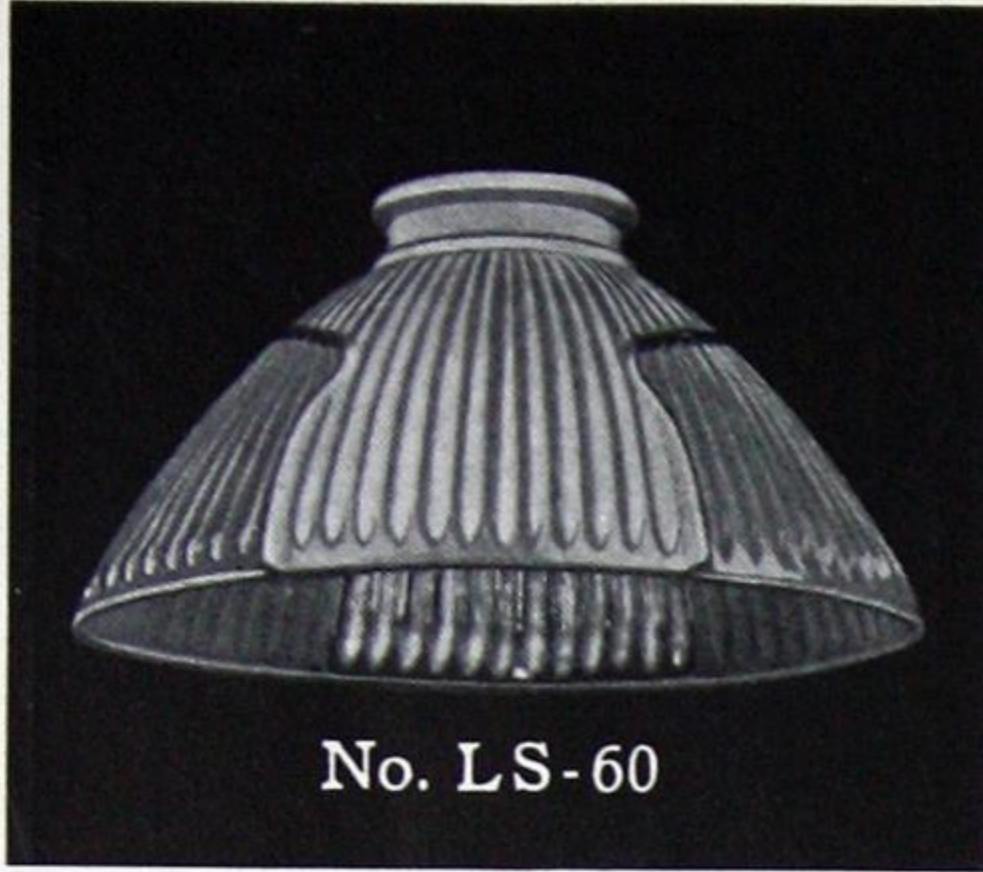
Ceiling Space Required—Same as for No. C-500-4.

Additional Equipment—for use with No. C-500-5.

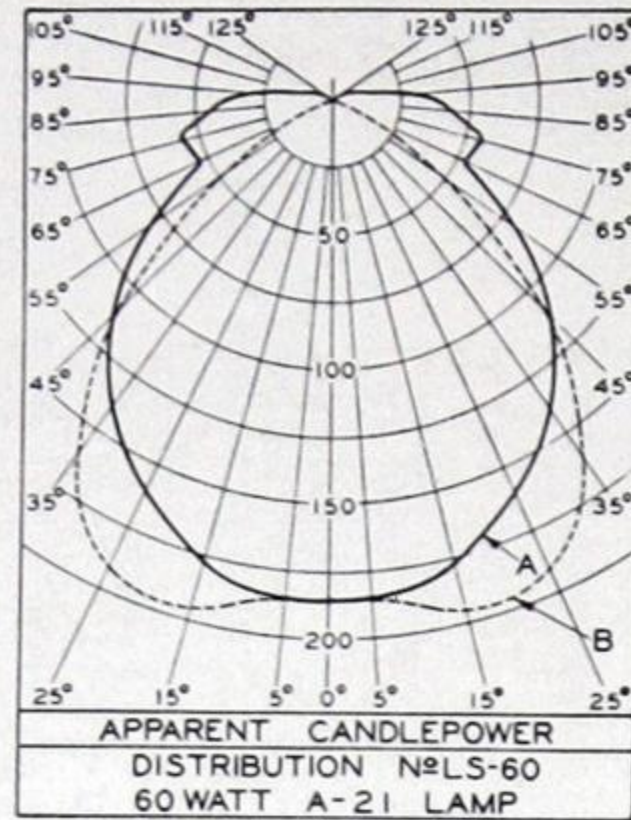
For Plaster Ceiling—Use Plaster Ring No. 10-B.



PERMAFLECTOR NO. LS-60



No. LS-60



LIBRARY STACK LIGHTING

Application—Most library stack rooms are poorly illuminated with bare lamps spaced at intervals between stacks. Since the shelving usually runs to the seven foot ceiling, such bare lamps illuminate the upper shelves satisfactorily but utterly fail to provide the necessary illumination to the bottom shelves. An intensive downwardly reflected light is essential to get good illumination on the lowest row of books and for this a silvered glass reflector is the best. However, a portion of the reflector must transmit light through the sides so as to illuminate the uppermost books. In addition, the distribution lengthwise of the stacks must be broader than crosswise, to permit a spacing of four to six feet between reflectors. Permaflector LS-60 performs all these functions effectively and efficiently.

Standard Quantity—10 **Weight, Approx.** 8 lbs.
Retail Price, Each\$3.00
CodeELSixTY

Spacing Recommended—6 feet on centers, maximum.

Dimensions:

Height Permaflector No. LS-60— $3\frac{1}{8}$ inches.
 Long Diameter at Opening— $7\frac{1}{4}$ inches.
 Short Diameter at Opening— $5\frac{5}{8}$ inches.

Lamp Size—25 Watt A-19; 60 Watt A-19.

Additional Equipment—for use with No. LS-60.

Holder:

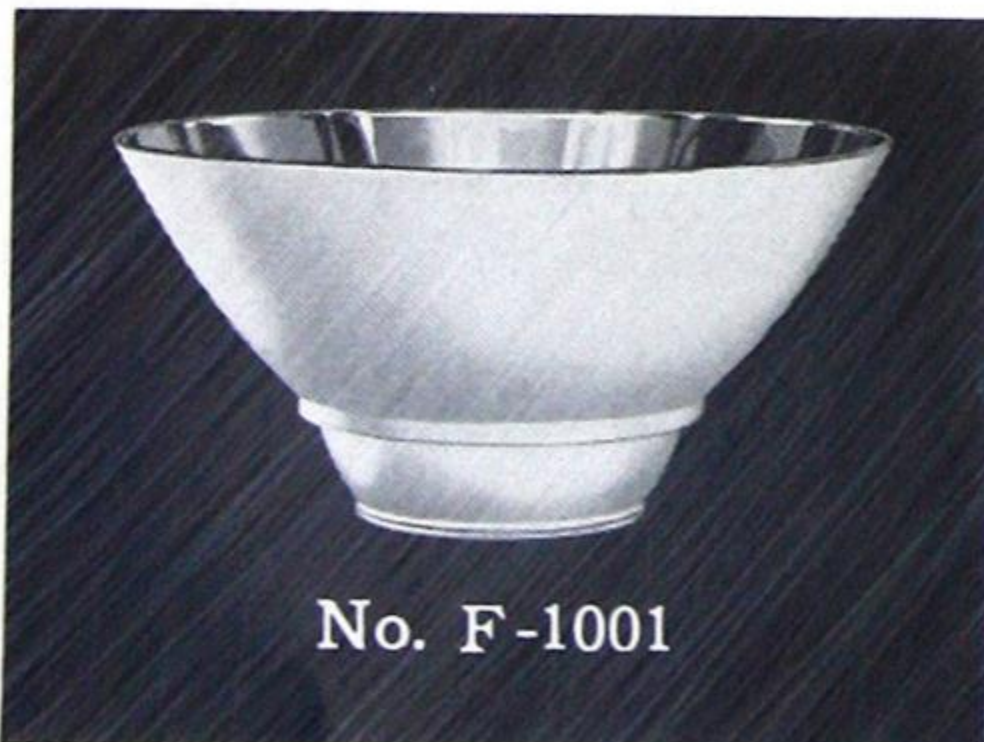
For Grooved Porcelain Socket—Use
 $2\frac{1}{4}$ " Form "SR" Holder for 25 Watt A-19 Lamp.
 For Porcelain Socket No. 1 or No. KO-8—Use
 $2\frac{1}{4}$ " Form "S" Holder for 25 Watt A-19 Lamp.
 $2\frac{1}{4}$ " Form "SL" Holder for 60 Watt A-19 Lamp.

May Be Installed With: Outlet Box Cover Assembly No. B-1-3/4 or B-1-4 with $2\frac{1}{4}$ " Form "S" or "SL" Holder.

May Be Mounted On:

Conduit No. 1 or Knockout Strip No. KO-1 with $2\frac{1}{4}$ " Form "S" or "SL" Holder.
 Conduit No. 12 with $2\frac{1}{4}$ " Form "SR" Holder.

PERMAFLECTOR NO. F-1001



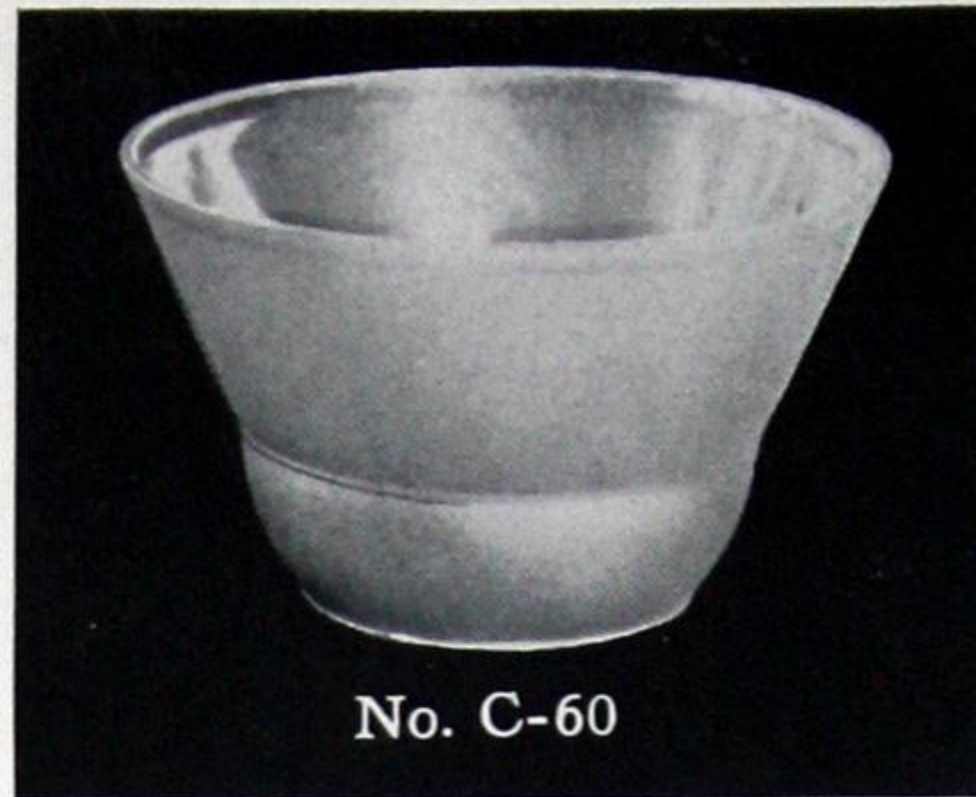
No. F-1001

Application — Used in new Floodlights No's AL-10 and AL-11, shown on Pages 102 and 103. Also used in old style Floodlights No's FLC-500, FLC-501, FLC-1000 and FLC-1001. Available for replacement in these obsolete floodlights which have been eliminated from the catalog.

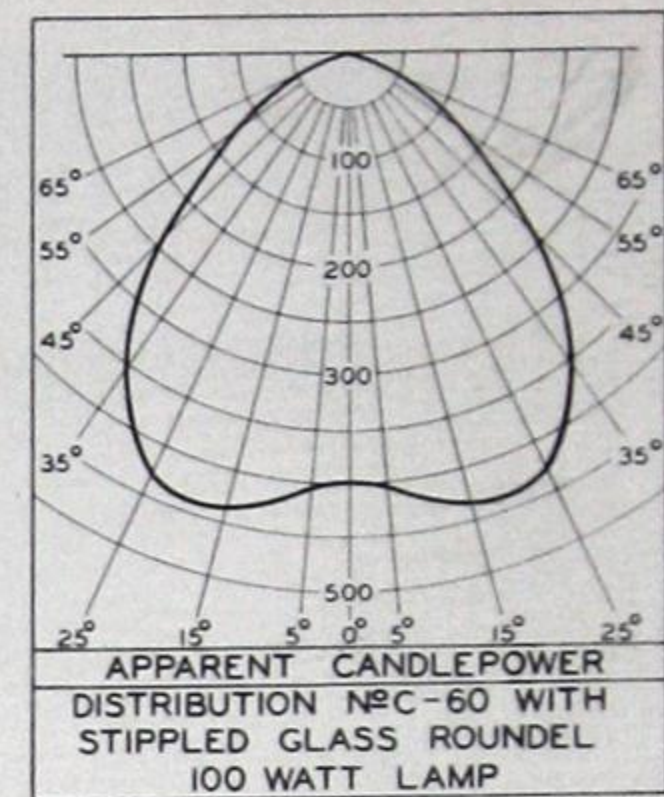
Dimensions:

Opening Circular, Diameter.....16 inches
 Depth $7\frac{1}{2}$ inches
Standard Quantity—1 **Weight, Approx.** 10 lbs.
Retail Price, Each\$12.00
CodeREFSETHONE

PERMAFLECTOR NO. C-60



No. C-60



Application—This is the Permaflector supplied with our Footlights and Borderlights. Cannot be used individually as it has no grooved neck.

Dimensions:

Height Permaflector No. C-60— $3\frac{1}{8}$ inches.
 Bottom Opening Circular, Diameter— $4\frac{3}{4}$ inches.

Standard Quantity—20 **Weight, Approx.** 12 lbs.
Retail Price, Each\$2.10
CodeSEESIXTY

PERMAFLECTORS FOR REPLACEMENT IN OLD STYLE FLOODLIGHTS

As a service to our customers we make available the following Permaflectors for replacement in old style Permaflector Floodlights, a vast number of which are still performing efficiently after many years' service.



F-300

PERMAFLECTOR NO. F-300

For Use with Floodlight No. FL-301

Dimensions:

Opening Circular, Diameter..... $11\frac{1}{2}$ in.
 Depth7 in.

Std. Quantity—1 **Weight, Approx.** 6 lbs.
Retail Price, Each\$11.00
CodeREFTREHUN



F-302

PERMAFLECTOR NO. F-302

For Use with Floodlight No. FL-302

Dimensions:

Opening Circular, Diameter..... $11\frac{1}{2}$ in.
 Depth7 in.

Std. Quantity—1 **Weight, Approx.** 6 lbs.
Retail Price, Each\$11.00
CodeREFTRECON



F-1002

PERMAFLECTOR NO. F-1002

For Use with Floodlight No. FL-750

Dimensions:

Opening Circular, Diameter.....16 in.
 Depth $8\frac{1}{8}$ in.

Std. Quantity—1 **Weight, Approx.** $9\frac{1}{2}$ lbs.
Retail Price, Each\$16.00
CodeREFSEVFIHO



F-1003

PERMAFLECTOR NO. F-1003

For Use with Floodlight No. FL-1003

Dimensions:

Opening Circular, Diameter.....16 in.
 Depth $7\frac{3}{4}$ in.

Std. Quantity—1 **Weight, Approx.** 12 lbs.
Retail Price, Each\$16.00
CodeREFTHOTREE



F-1500

PERMAFLECTOR NO. F-1500

For Use with Floodlight No. FL-1500

Dimensions:

Opening Circular, Diameter.....18 in.
 Depth $7\frac{3}{4}$ in.

Std. Quantity—1 **Weight, Approx.** 13 lbs.
Retail Price, Each\$24.00
CodeREFFITEEN

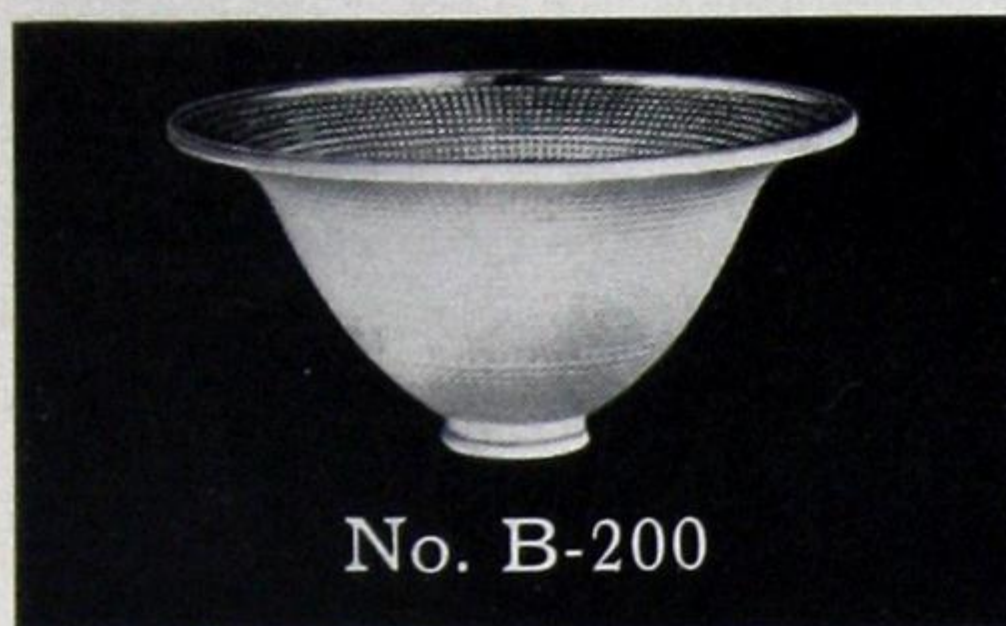


PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA

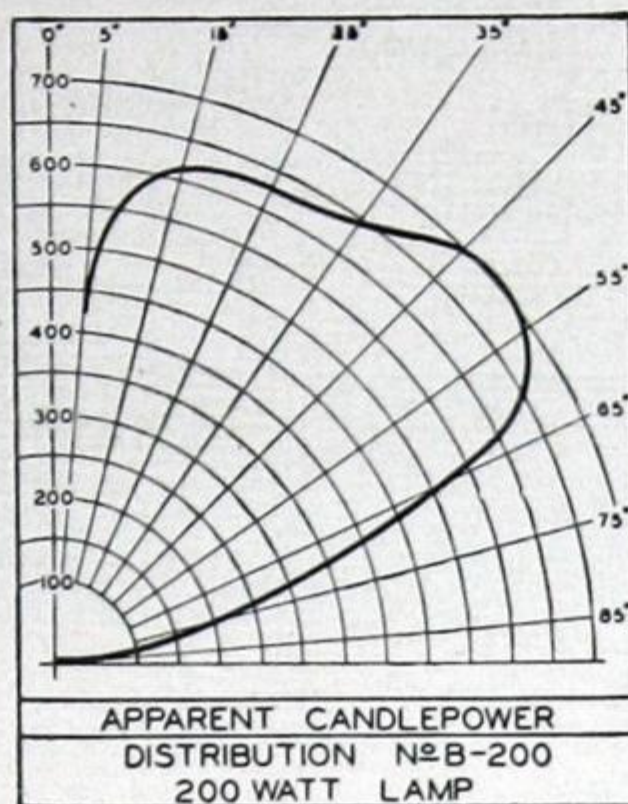
PERMAFLECTORS FOR INDIRECT LUMINAIRES

For Use With Opaque Bowls

PERMAFLECTOR No. B-200



No. B-200



Standard Quantity—10
Weight, Approx. 16½ lbs.
Retail Price, Each

\$3.50

Code

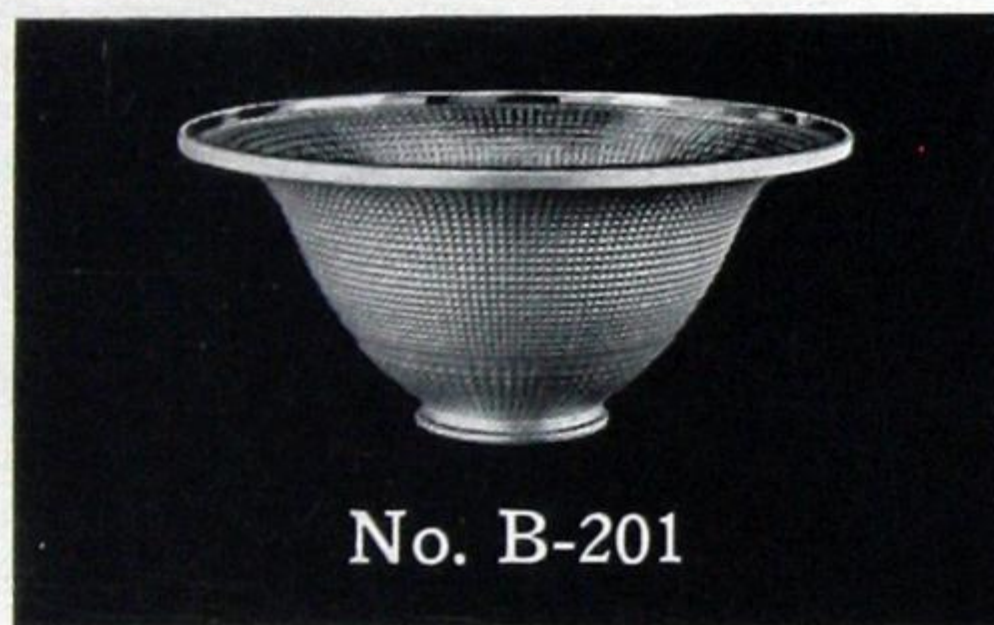
BEDASHTU

Application—For use in opaque bowl indirect luminaires.

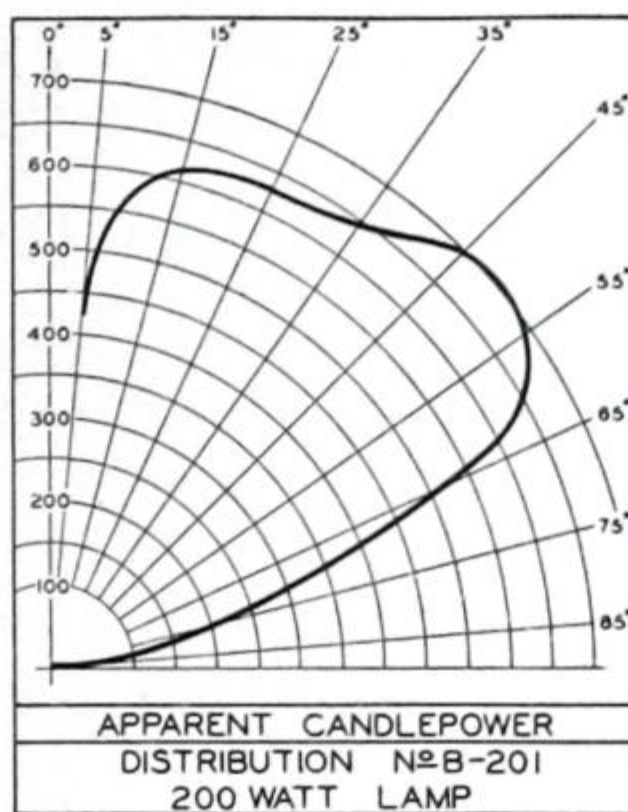
Dimensions—Diameter, 9½ inches; Depth, 4¾ inches.

Lamp Size—200 watt PS-30. Preferably use inside frosted lamps. To produce light distribution indicated by curve, center contact of base of 200-watt lamp must be 4¾ inches above top rim of Permaflector No. B-200.

PERMAFLECTOR No. B-201



No. B-201



Standard Quantity—10
Weight, Approx. 16½ lbs.
Retail Price, Each

\$3.50

Code

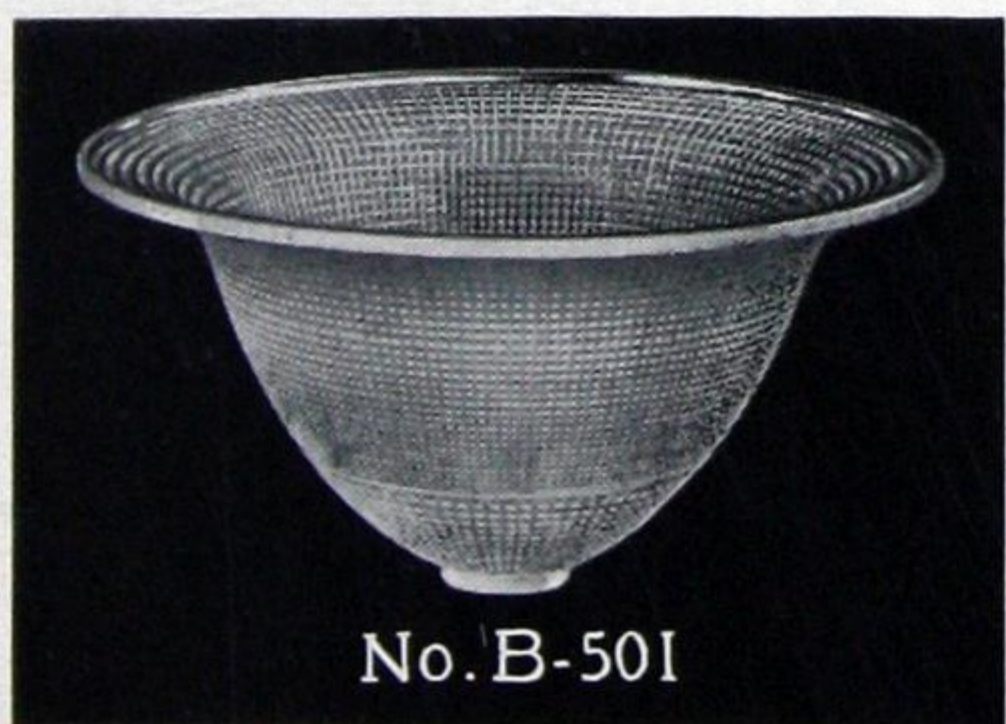
BETUONE

Application—For use in Indirect Floor Lamps. This Permaflector is identical in shape to B-200 except has wider neck to accommodate lamp for base down service.

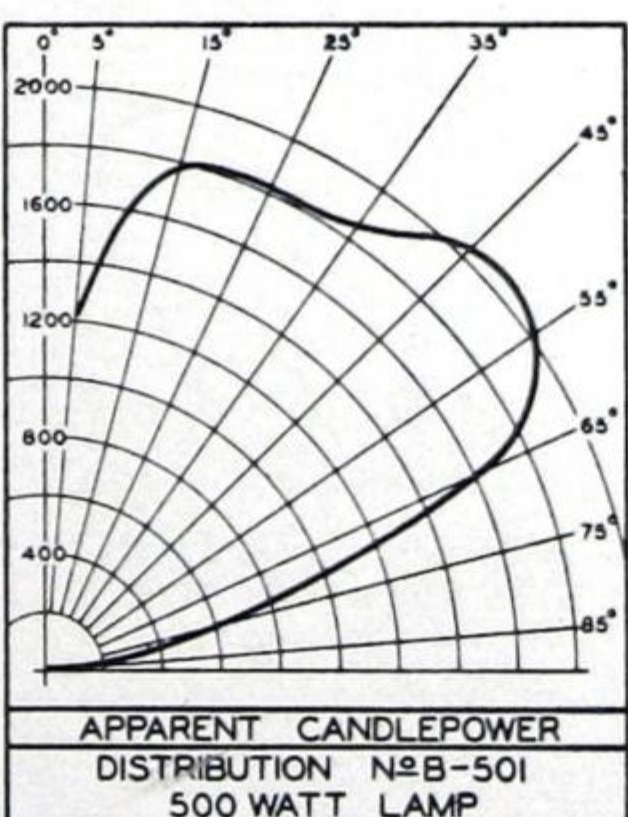
Dimensions—Diameter, 9½ inches; Depth, 4¾ inches.

Lamp Size—200 watt PS-30; 100-200-300 watt G-30 Three-Light.

PERMAFLECTOR No. B-501



No. B-501



Standard Quantity—7
Weight, Approx. 28 lbs.
Retail Price, Each

\$4.35

Code: Permaflector No. B-501

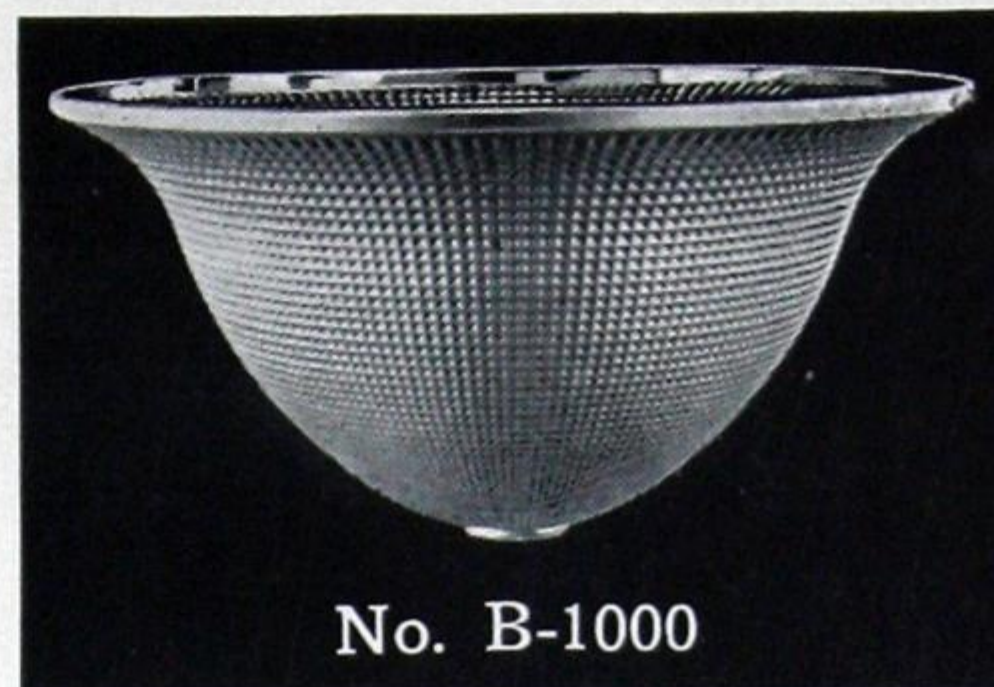
BEEFIVONE

Application—For use in opaque bowl indirect luminaires.

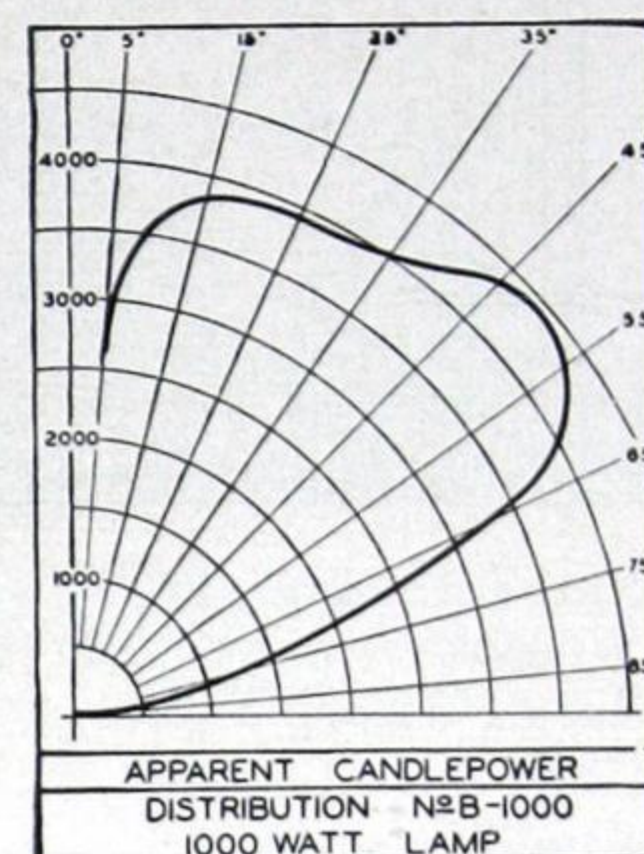
Dimensions—Diameter 12 inches; Depth 6 inches.

Lamp Size—500 watt PS-40, 300 watt PS-35. Preferably use inside frosted lamps. To produce light distribution indicated by curve, center contact of base of 500-watt lamp must be 5¾ inches above top rim of Permaflector No. B-501.

PERMAFLECTOR No. B-1000



No. B-1000



Standard Quantity—1
Weight, Approx. 9 lbs.

Retail Price, Each

\$9.80

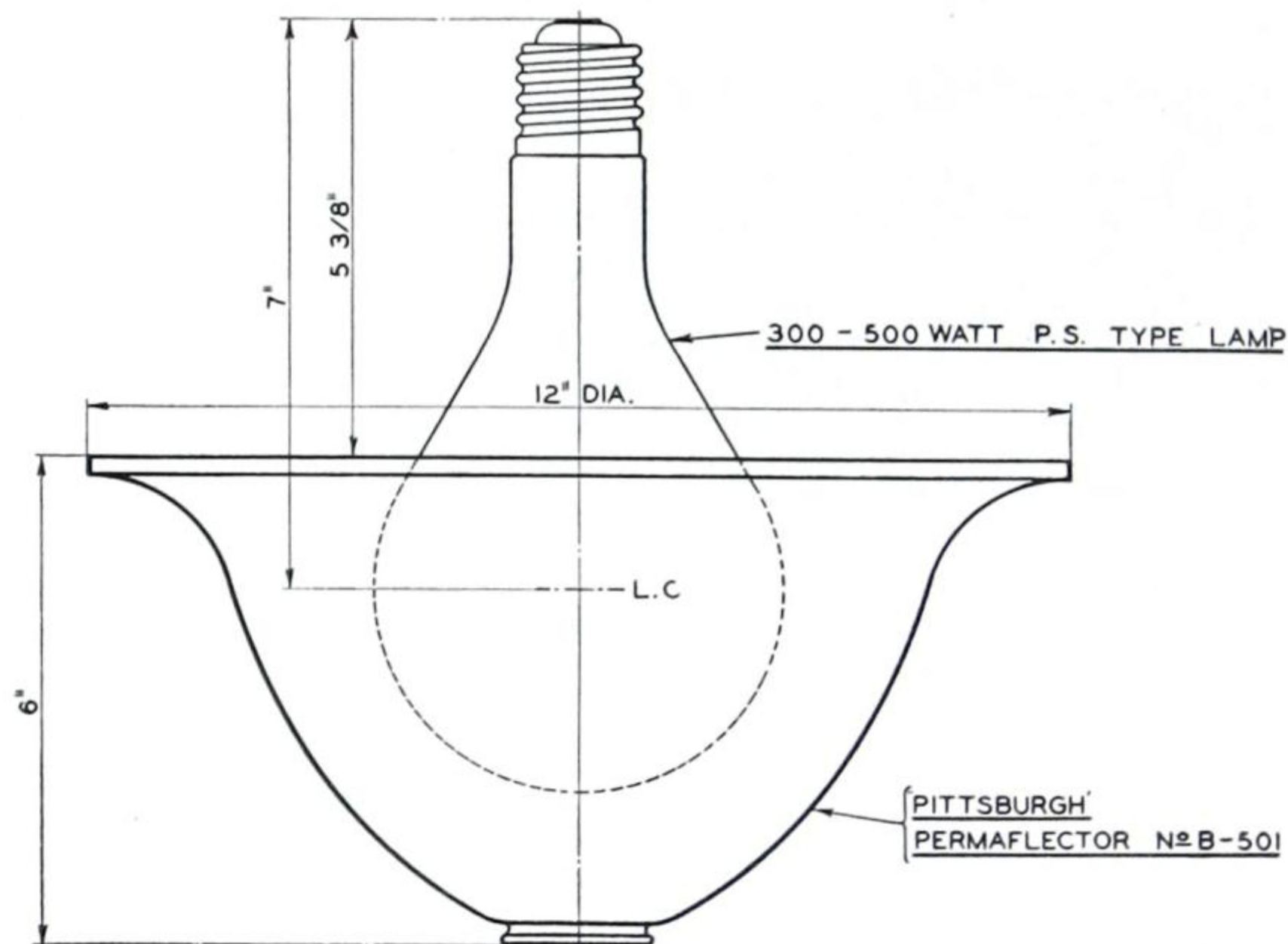
Code

BEETHOSAN

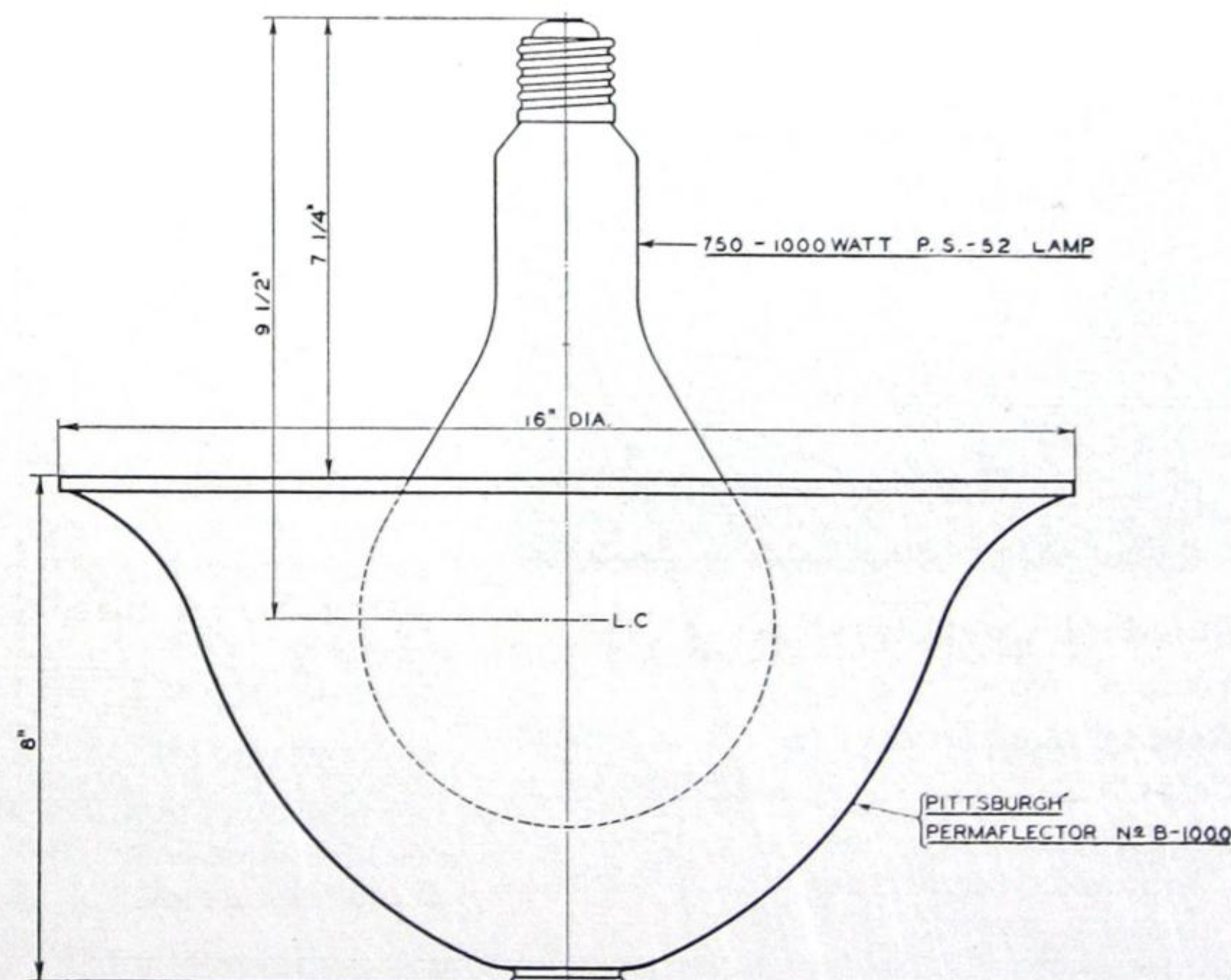
Application—For use in opaque bowl indirect luminaires.

Dimensions—Diameter 16 inches; Depth 8 inches.

Lamp Size—1000 watt PS-52; 750 watt PS-52. Preferably use inside frosted lamp. To produce light distribution indicated by curve, center contact of base of 1000-watt lamp must be 7¼ inches above top rim of Permaflector No. B-1000.



Permaflector No. B-501 Showing Lamp Position

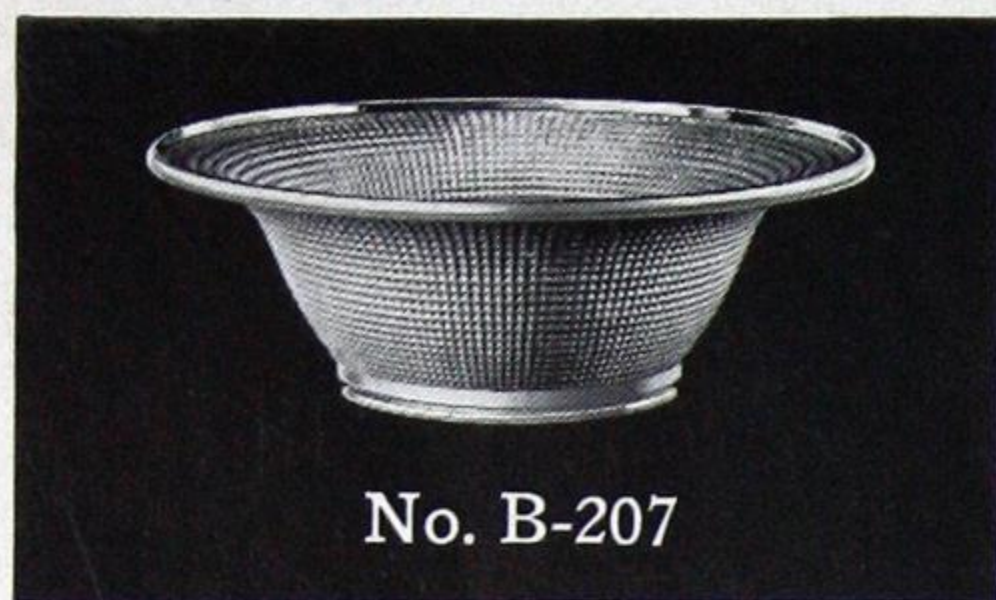


Permaflector No. B-1000 Showing Lamp Position



PERMAFLECTORS FOR INDIRECT LUMINAIRES

PERMAFLECTOR NO. B-207



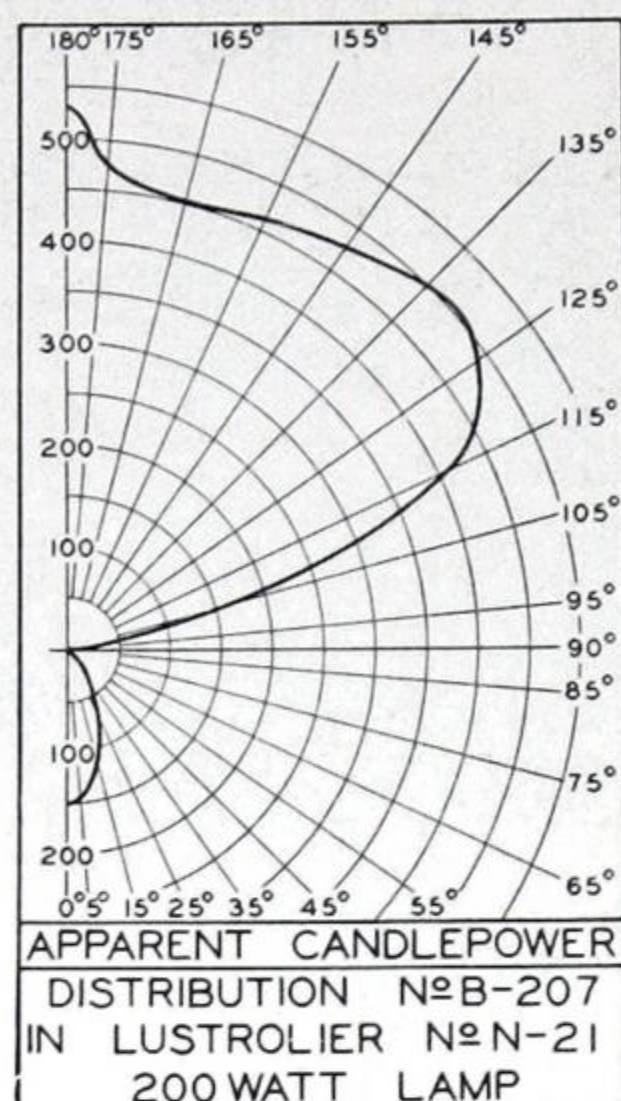
No. B-207

Standard Quantity—10
Weight, Approx. 16½ lbs.
Retail Price, Each\$3.50
CodeBEETOSEV

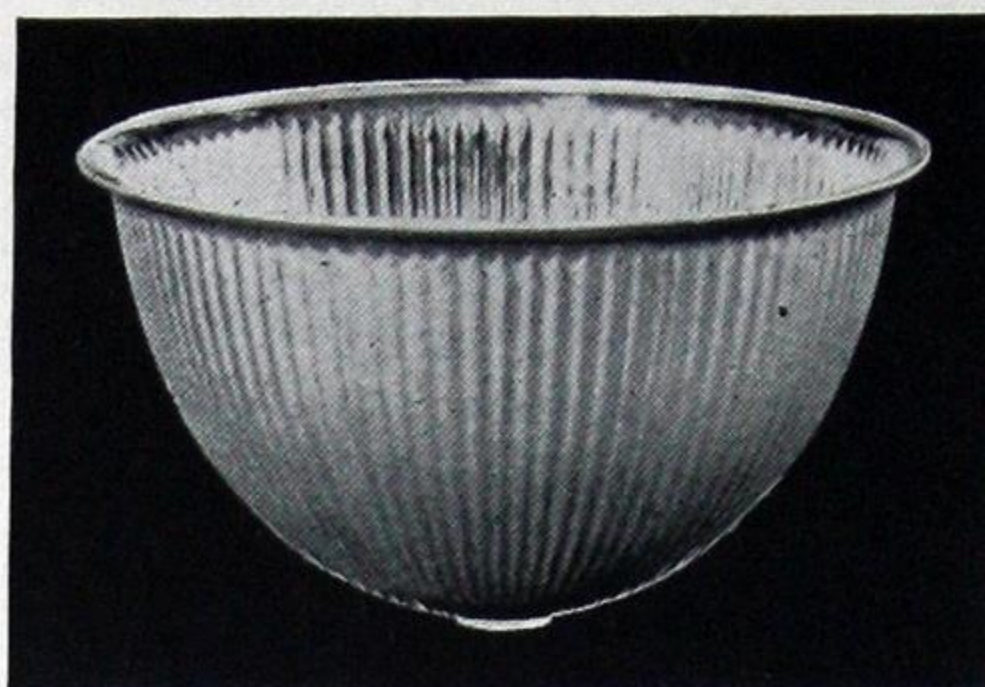
Application—For use in indirect luminaires having illuminated bowl. Permalector B-207 is similar to B-200 as to contour, fluting and light distribution but in addition has an open lower portion which transmits a low percentage of light downward for the illumination of the bowl or direct lighting component.

Dimensions—Diameter 9½ inches, Depth 3½ inches.

Lamp Size—200 watt PS-30. Preferably use inside frosted lamps. Lamp position same as for B-200.



PERMAFLECTOR NO. B-509

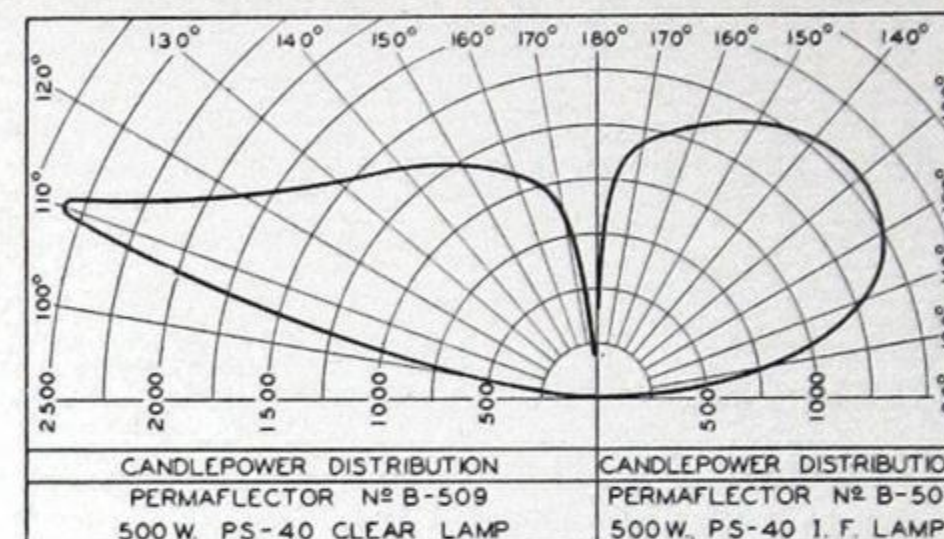


Standard Quantity—10
Weight, Approx. 14 lbs.
Retail Price, Each \$2.50
CodeBEFIONIN

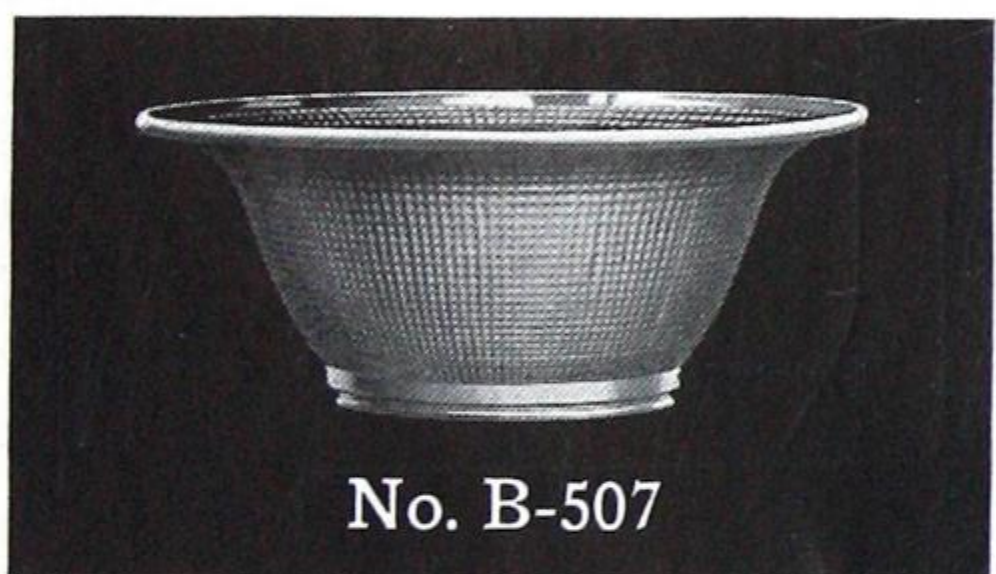
Application — For use in indirect luminaires with opaque bowl such as Luminaires B-50, B-53, etc.

Dimensions—Diameter 7¾"; Depth 4⅞".

Lamp Size—500 watt PS-40, 300 watt PS-35. Preferably use inside frosted lamps. To produce light distribution indicated by curve, center contact of base of 500 watt lamp must be 6⅞" above top rim of Permalector B-509.



PERMAFLECTOR NO. B-507



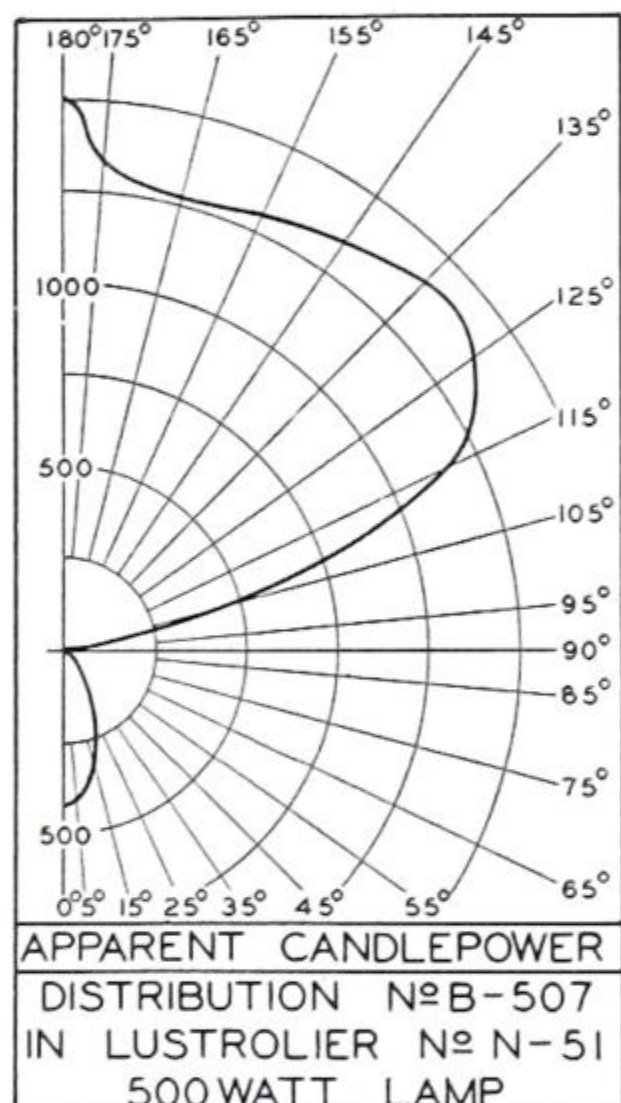
No. B-507

Standard Quantity—7
Weight, Approx. 28 lbs.
Retail Price, Each\$4.35
CodeBEEFISEV

Application—For use in indirect luminaires having illuminated bowl. Similar in design to B-207.

Dimensions—Diameter 12 inches; Depth 4½ inches.

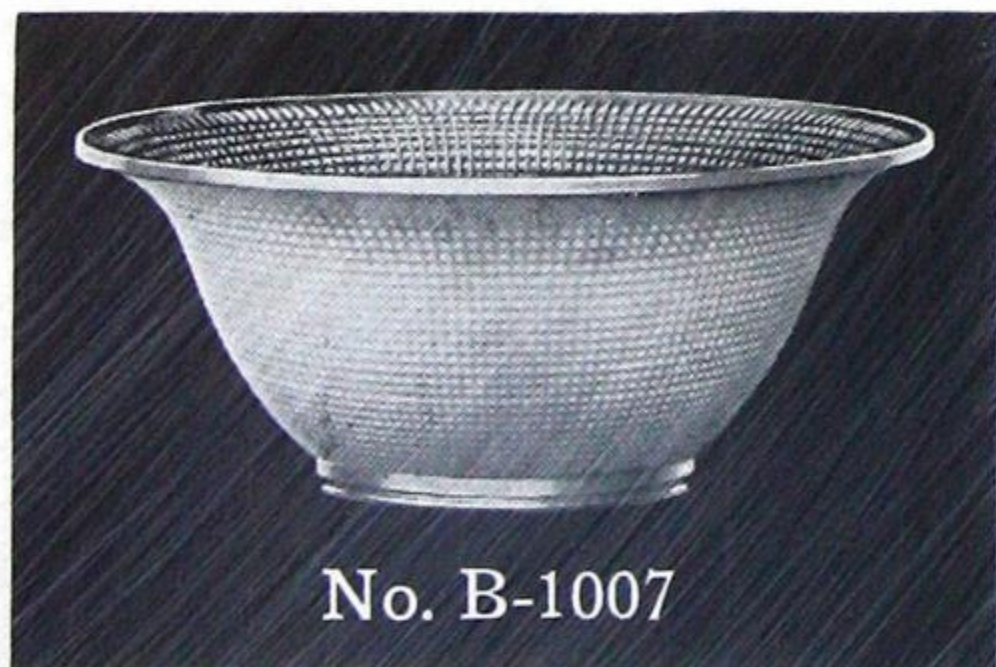
Lamp Size—500 watt PS-40, 300 watt PS-35. Preferably use inside frosted lamps. Lamp position same as for B-501.



ORIGINALITY IN LUMINAIRE DESIGN

Permalectors designed for use in indirect luminaires, lamps and urns offer architects, engineers and lighting fixture manufacturers unlimited opportunities for designing new and original fixtures. Since the Permalector efficiently reflects and distributes the light flux from the lamp, enclosures of any desired shape, finish or material may be used. For example, a countless variety of metal shapes could be designed and built around Permalector No. B-507; yet, the distribution of light as shown on the chart would remain constant.

PERMAFLECTOR NO. B-1007



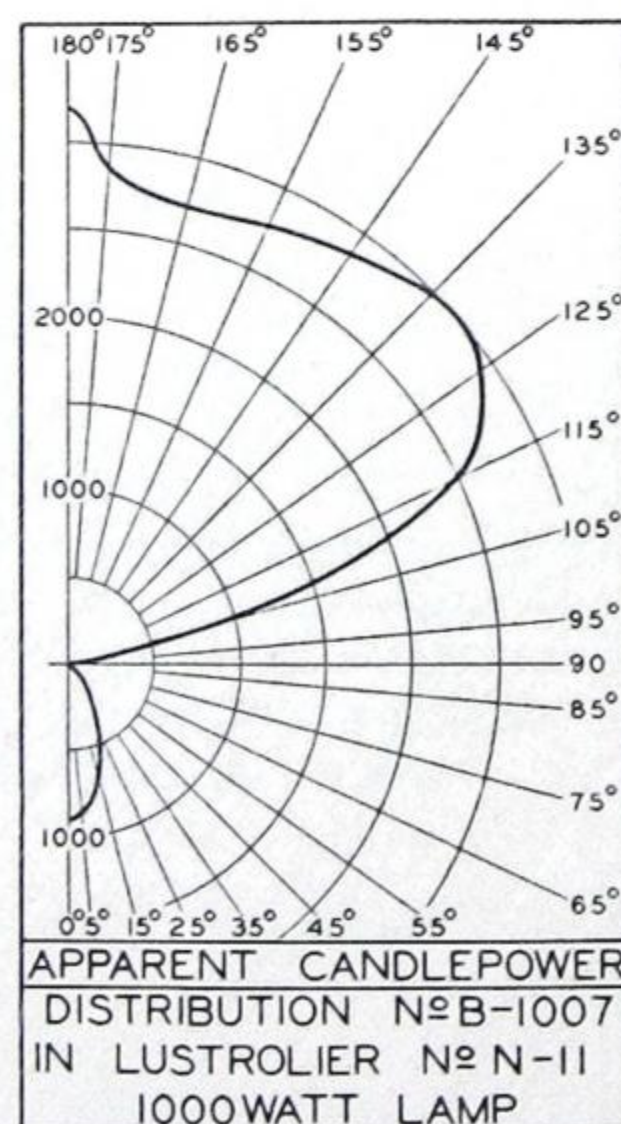
No. B-1007

Standard Quantity—1
Weight, Approx. 9 lbs.
Retail Price, Each\$9.70
CodeBEETHOSEV

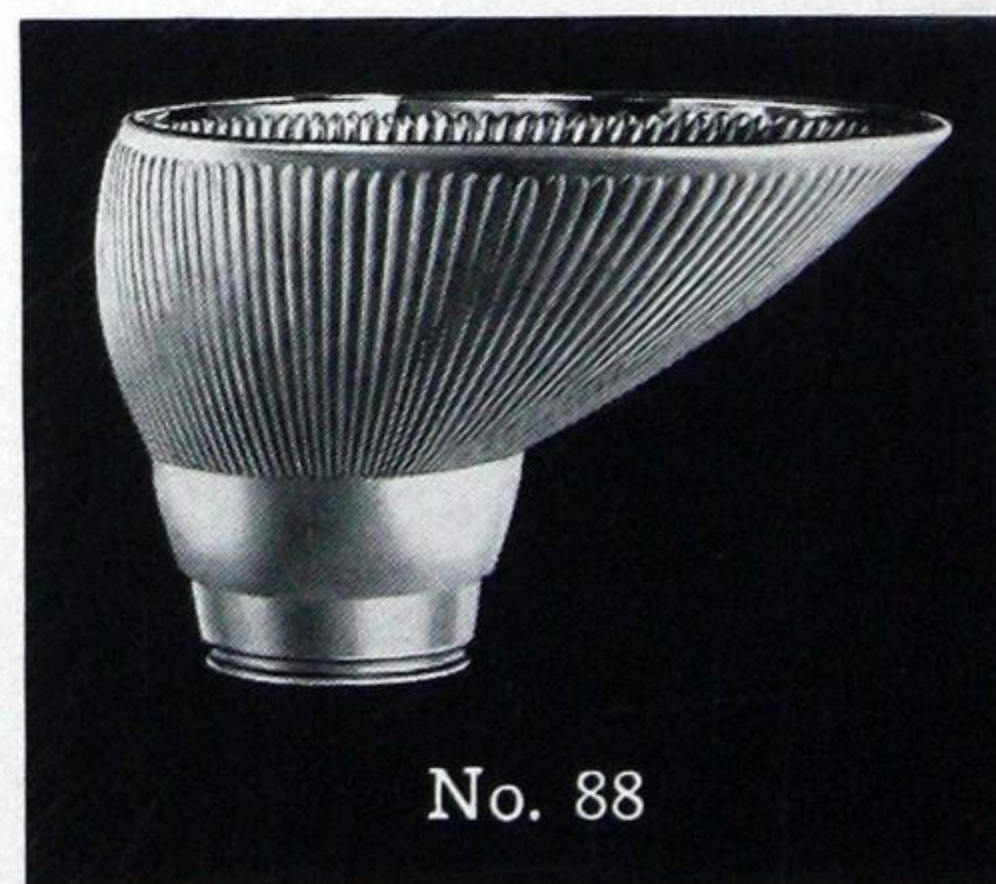
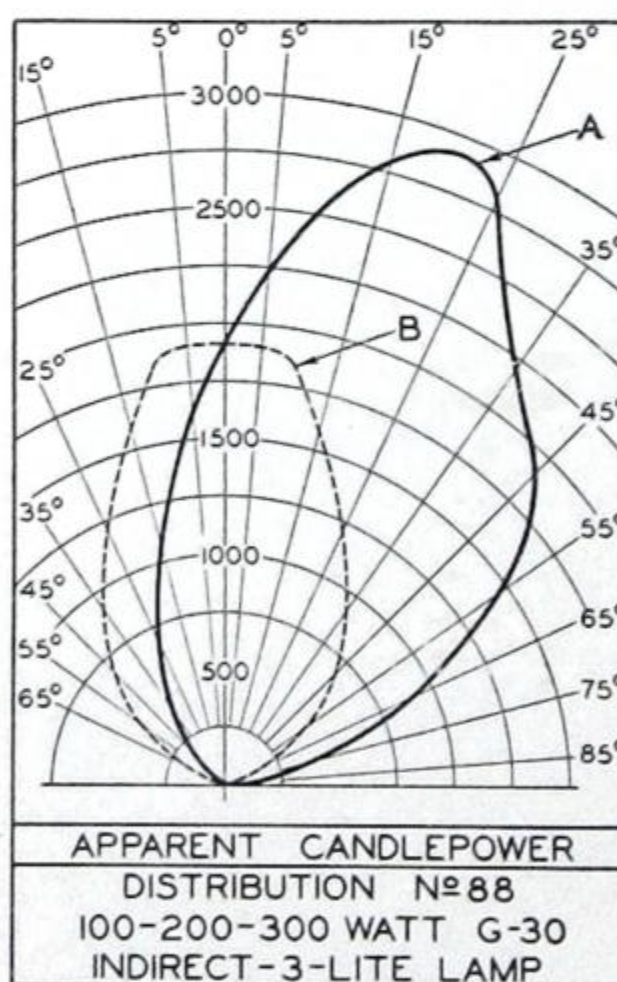
Application—For use in indirect luminaires having illuminated bowl. Similar design to B-207.

Dimensions—Diameter 16 inches; Depth 6⅞ inches.

Lamp Size—750-1000 watt PS-52. Preferably use inside frosted lamps. Lamp position same as for B-1000.



PERMAFLECTOR NO. 88



No. 88

Standard Quantity—6
Weight, Approx. 12 lbs.
Retail Price, Each\$3.75
CodeSHOTIAT

Application—For use in indirect lighting urns, floor and table lamps, where asymmetric distribution is required.

Dimensions—Diameter, 8½ inches.

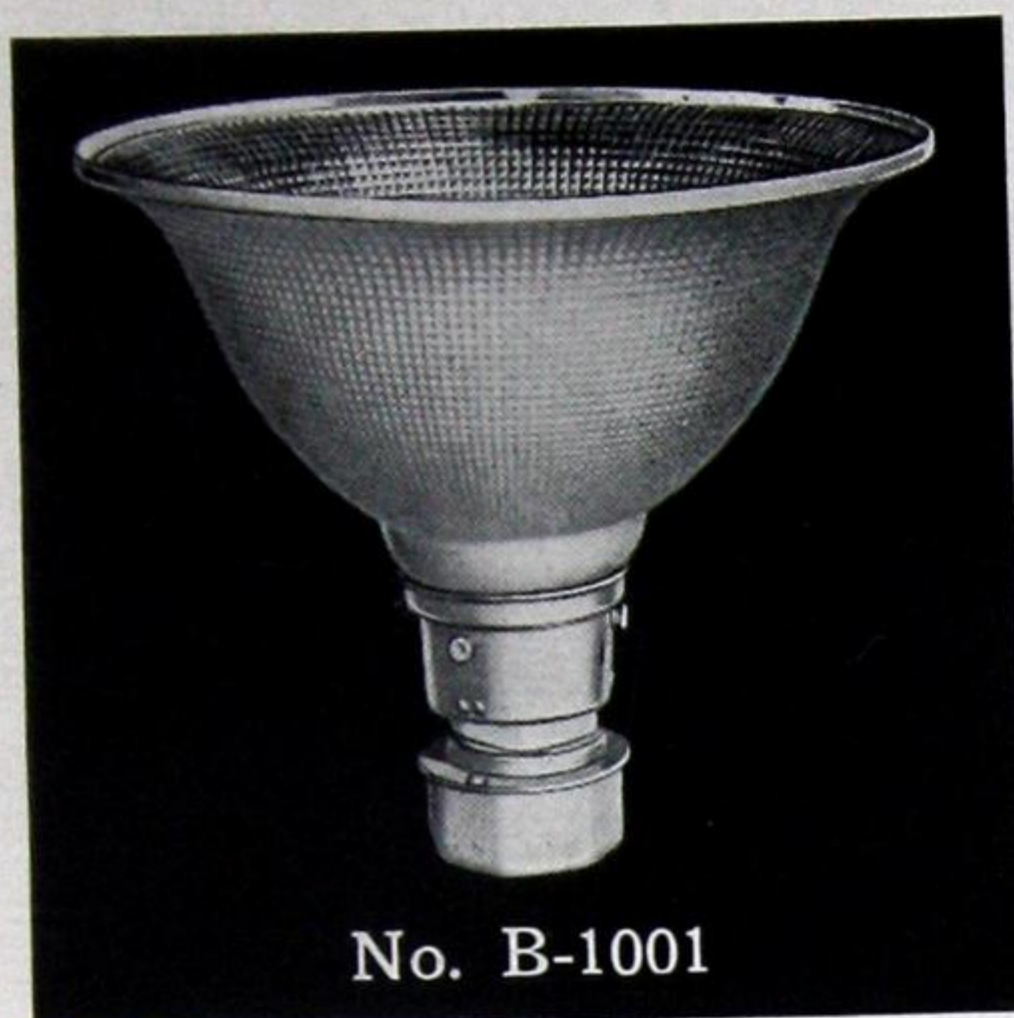
Lamp Size—200 watt PS-30; 100-200-300 watt, G-30 I. F. Indirect (3-Lite).

Other Asymmetric Permalectors for Indirect Lighting:

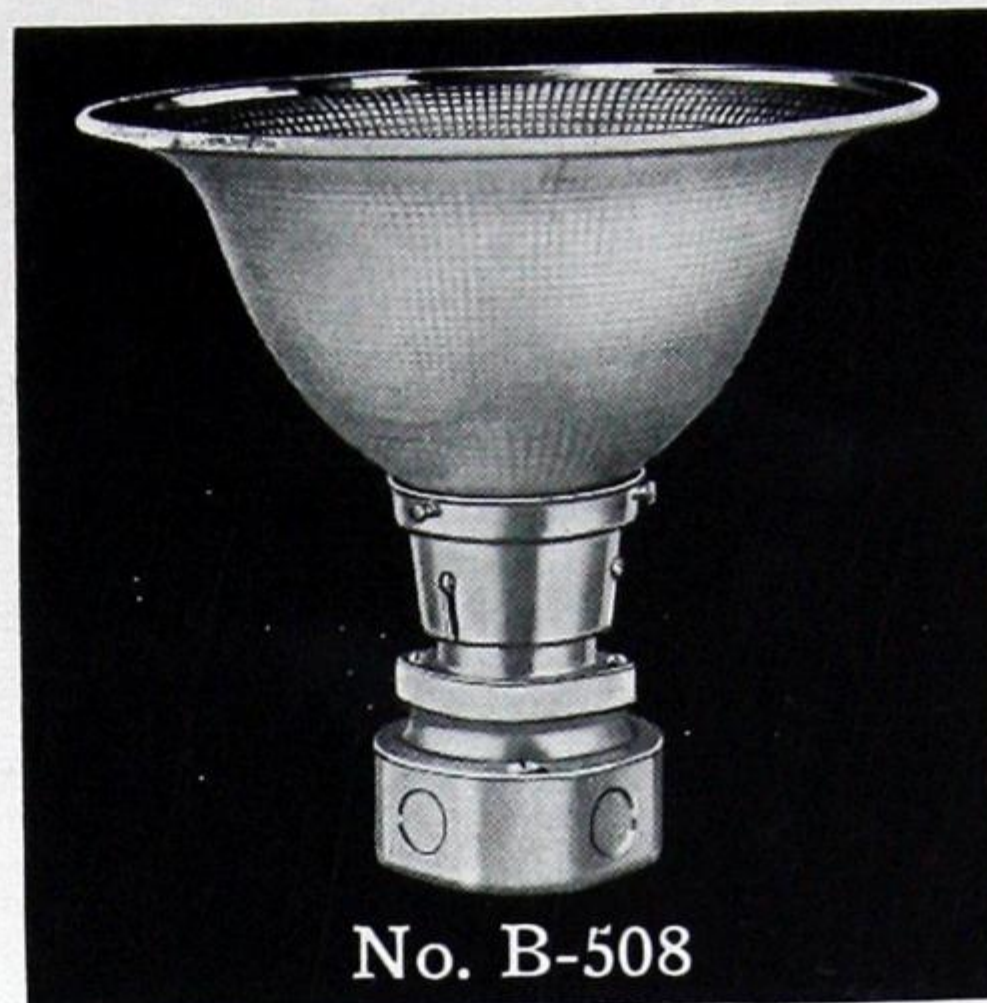
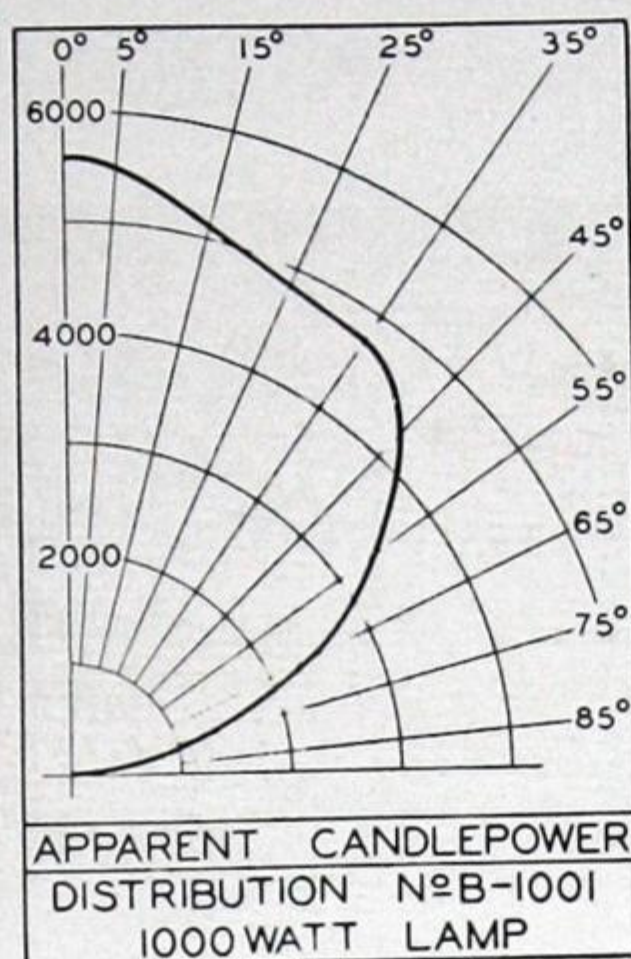
Permalectors Nos. 77 and 99 also may be used in indirect lighting urns, floor and table lamps.

PERMAFLECTORS FOR URNS, FLOOR AND TABLE LAMPS

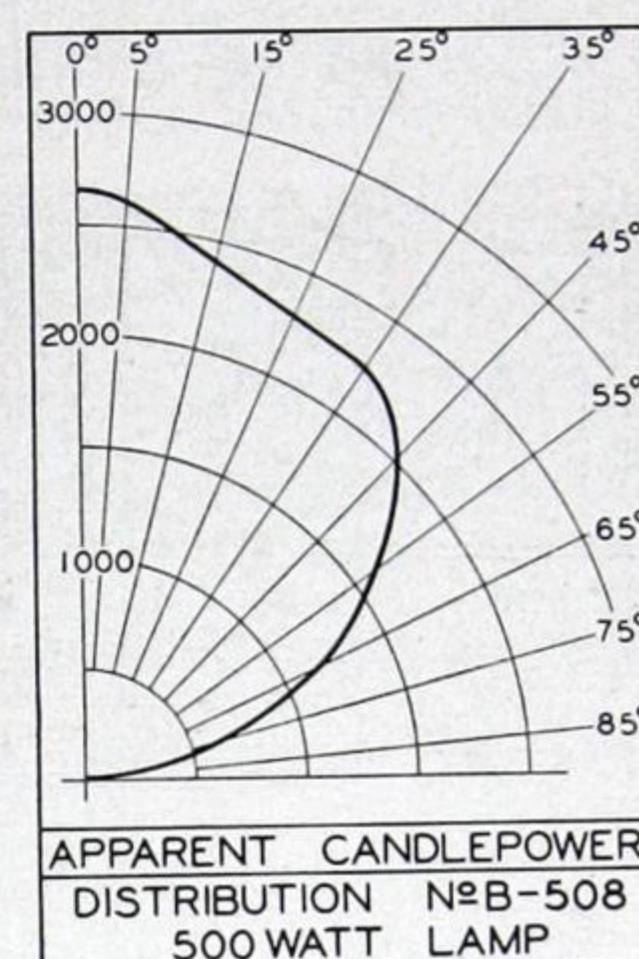
(Lamps Base Down Burning Only)



No. B-1001



No. B-508



PERMAFLECTOR NO. B-1001

Lamp Size—1000 watt or 750 watt PS-52 Inside Frosted.

Dimensions:

Height, overall—13¾ inches.
Permaflector Opening, Circular—Diameter, 16 inches.

Consists of:

Permaflector No. B-1001-GO.
Outlet Box Cover Assembly No. B-3.
Holder No. M-3.
4" Octagonal Outlet Box, 1½ inches deep.

Standard Quantity—1

Weight, Approx. 10 lbs.

Retail Price, Each:

Permaflector No. B-1001.....\$11.90
Permaflector No. B-1001-GO (Glass Only)..... 9.70

Code:

Permaflector No. B-1001BEETENONE
Permaflector No. B-1001-GOBEETENGLA

PERMAFLECTOR NO. B-1001-B

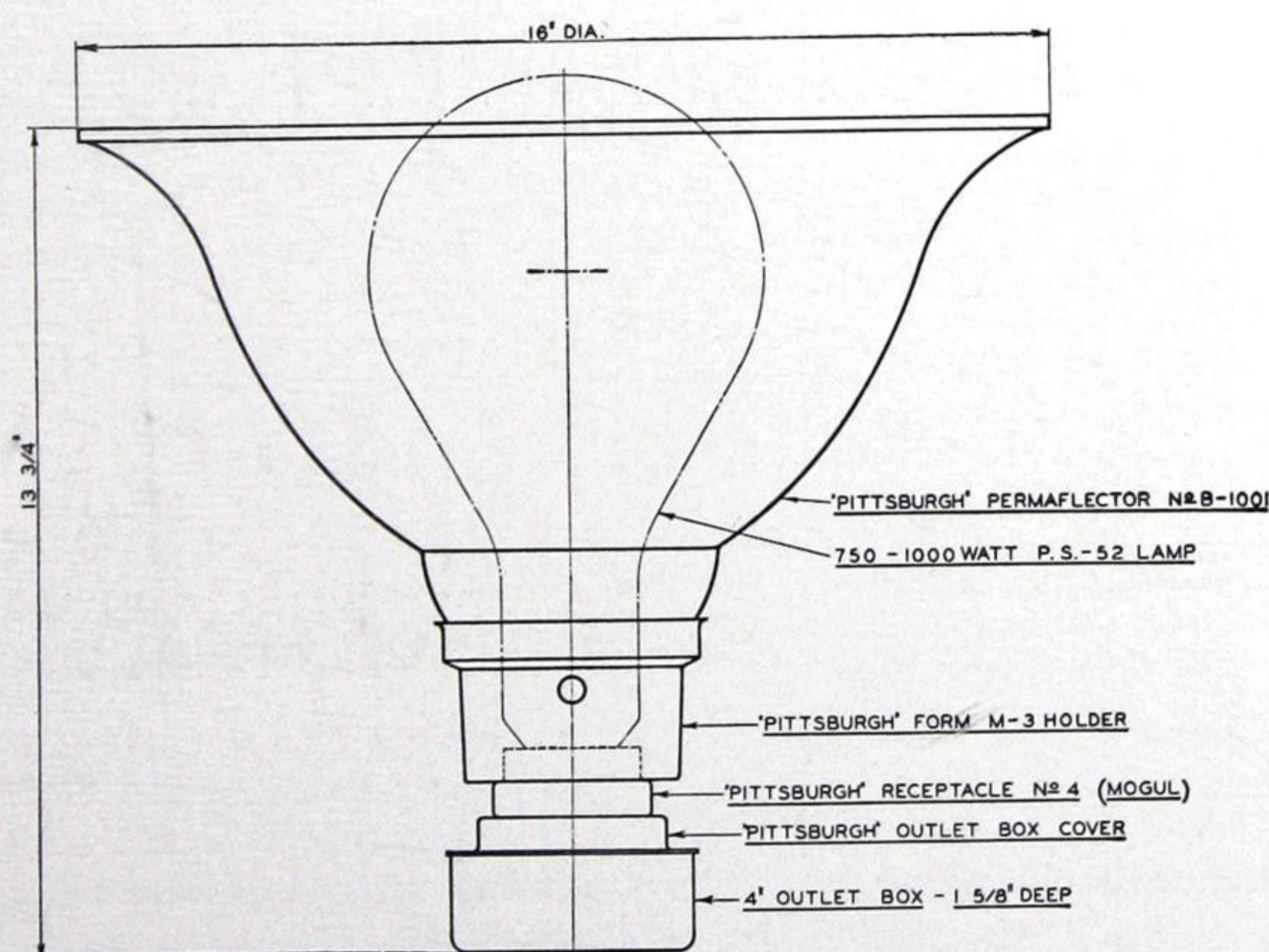
Same as Permaflector No. B-1001 except equipped with Box No. KO-11 for attaching to ½ inch conduit stem.

Standard Quantity—1

Weight, Approx. 10 lbs.

Retail Price, Each.....\$11.90

CodeBETENONEBI



No. B-1001 General Arrangement.
For Indirect Lighting.

PERMAFLECTOR NO. B-508

Lamp Size—500 watt PS-40 or 300 watt PS-35 Inside Frosted.

Dimensions:

Height Overall with adapter No. 810 Compressed—11¼ inches.
Permaflector Opening, Circular—Diam., 12 inches.

Consists of:

Permaflector No. B-508-GO.
Outlet Box Cover Assembly No. B-3.
Adapter No. 810.
4" Octagonal Outlet Box, 1½ inches deep.

Standard Quantity—7

Weight, Approx. 40 lbs.

Retail Price, Each:

Permaflector No. B-508.....\$7.20
Permaflector No. B-508-GO (Glass Only) 4.35

Code:

Permaflector No. B-508BEEFIVATE
Permaflector No. B-508-GOBEEFIATGLA

PERMAFLECTOR NO. B-508-B

Same as Permaflector No. B-508 except equipped with Box No. KO-11 for attaching to ½ inch conduit stem.

Standard Quantity—7

Weight, Approx. 40 lbs.

Retail Price, Each.....\$7.20

CodeBEFIATEBE

PERMAFLECTOR NO. B-208

Lamp Size—200 watt PS-30 Inside Frosted.

Dimensions:

Height, Overall—8¾ inches.
Permaflector Opening, Circular—Diam., 9½ inches.

Consists of:

Permaflector No. B-200 (See page 67 for Illustration and Distribution Curve).
Outlet Box Cover Assembly No. B-1-3¼-LC.
¾" Octagonal Outlet Box, 1½ inches deep.

Standard Quantity—10

Weight, Approx. 21 lbs.

Retail Price, Each:

Permaflector No. B-208\$4.50

Code:

Permaflector No. B-208BEETUATE

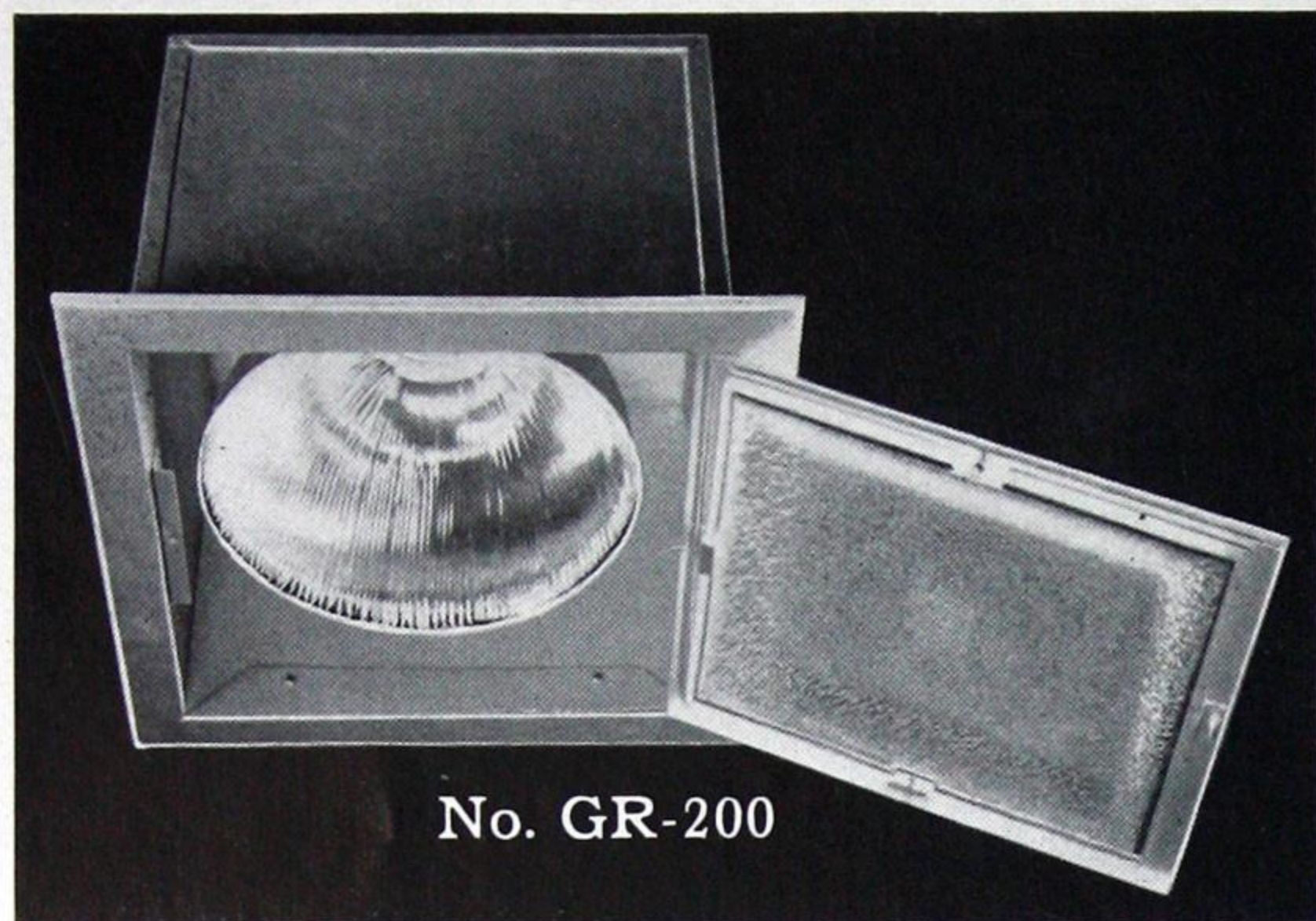


SQUARE PERMAFLECTOR BUILT-IN UNITS

(Sprayed and Baked Aluminum Finish)

While the ceiling roundel and louver units are most extensively employed with recessed Permaflectors, for some applications square built-in units are best suited. We present

herewith a family of such square units ranging from 100 watt to 500 watt size inclusive.



No. GR-200

BUILT-IN UNIT NO. GR-500

Consists of:

- Permaflector No. E-500-GO.
- Porcelain Mogul Socket No. 4.
- Holder No. M-3.
- 4" Octagonal Outlet Box—2½ inches deep.
- 13⅝" square, Heat Resisting Stippled Glass Plate.
- 20-Gage Steel Housing.
- 20-Gage Steel Hinged Frames.

Lamp Size:

500 watt PS-40 or 300 watt PS-35 Mogul Base.

Spacings on Centers:

For uniform illumination, should not exceed ceiling height above work plane.

Ceiling Space Required:

- Space Above Ceiling Line—16½ inches.
- Opening to be Cut in Ceiling—15¾ inches square.

Standard Quantity—1

Weight, Approx. 47 lbs.

Retail Price, Each.....\$33.00

CodeGERFI

Additional Equipment—for use with No. GR-500.

For Plaster Ceiling—use Plaster Frame No. GR-50.

BUILT-IN UNIT NO. GR-300

Consists of:

- Permaflector No. E-230.
- Medium Base Porcelain Socket No. 1.
- 4" Octagonal Outlet Box—1⅝ inches deep.
- 10½" Square Stippled Glass Plate.
- 20-Gage Steel Housing.
- 20-Gage Steel Hinged Frames.

Lamp Size:

300 watt PS-35 or 200 watt PS-30 Med. Base.

Spacings on Centers:

For uniform illumination, should not exceed ceiling height above work plane.

Ceiling Space Required:

- Space Above Ceiling Line—12½ inches.
- Opening to be Cut in Ceiling—12 inches square.

Standard Quantity—1

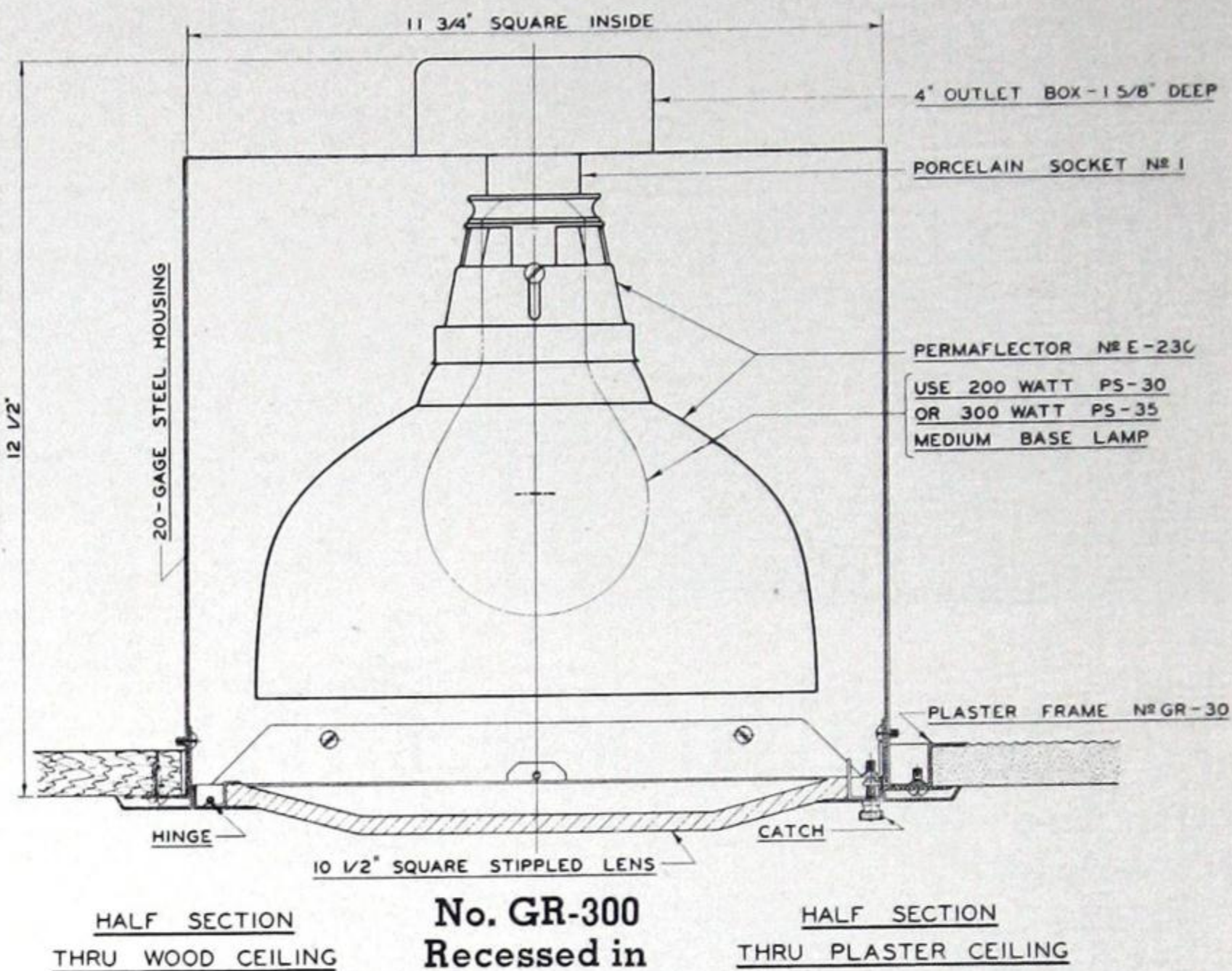
Weight, Approx. 24 lbs.

Retail Price, Each.....\$20.00

CodeGERE

Additional Equipment—for use with No. GR-300.

For Plaster Ceiling—use Plaster Frame No. GR-30.



No. GR-300
Recessed in
Ceiling

BUILT-IN UNIT NO. GR-200

Consists of:

- Permaflector No. I-201-A.
- Medium Base Porcelain Socket No. 1.
- 4" Octagonal Outlet Box—1⅝ inches deep.
- 10½" Square Stippled Glass Plate.
- 20-Gage Steel Housing.
- 20-Gage Steel Hinged Frames.

Lamp Size: 200 watt PS-30.

Spacings on Centers:

For uniform illumination, should not exceed two-thirds the ceiling height above work plane.

Ceiling Space Required:

- Space Above Ceiling Line—11½ inches.
- Opening to be Cut in Ceiling—12 inches square.

Standard Quantity—1

Weight, Approx. 22 lbs.

Retail Price, Each.....\$20.00

CodeGERTU

Additional Equipment—for use with No. GR-200.

For Plaster Ceiling—use Plaster Frame No. GR-30.

BUILT-IN UNIT NO. GR-100

Consists of:

- Permaflector No. E-75.
- Medium Base Porcelain Socket No. 1.
- 2¼" Form "L" Holder.
- 4" Octagonal Outlet Box—1⅝ inches deep.
- 8½" Square Stippled Glass Plate.
- 20-Gage Steel Housing.
- 20-Gage Steel Hinged Frames.

Lamp Size. 100 watt A-23.

Spacings on Centers:

For uniform illumination, should not exceed ceiling height above work plane.

Ceiling Space Required:

- Space Above Ceiling Line—9¼ inches.
- Opening to be Cut in Ceiling—10 inches square.

Standard Quantity—1

Weight, Approx. 12 lbs.

Retail Price, Each.....\$16.50

CodeGERON

Additional Equipment—for use with No. GR-100.

For Plaster Ceiling—use Plaster Frame No. GR-10.



PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA

PERMAFLECTOR INSTALLATIONS



Architect—Max A. Bernhardt.

Electrical Contractor—Electro Construction Company.

S. Kind & Sons, Philadelphia, Pa., is one of the Nation's best lighted jewelry stores. Recessed and concealed Permaflectors No's C-201-A and C-500-A provide 140 foot-candles of uniform direct illumination on the tops of the sales counters.



Electrical Contractor—Spring Electric Co., Canton, Ohio.

Ewing Chevrolet Co., Canton, Ohio, displays its cars under Permaflector Recessed Units which provide "punch lighting" that makes the bodies and polished metal finishes glisten and sparkle with new life.



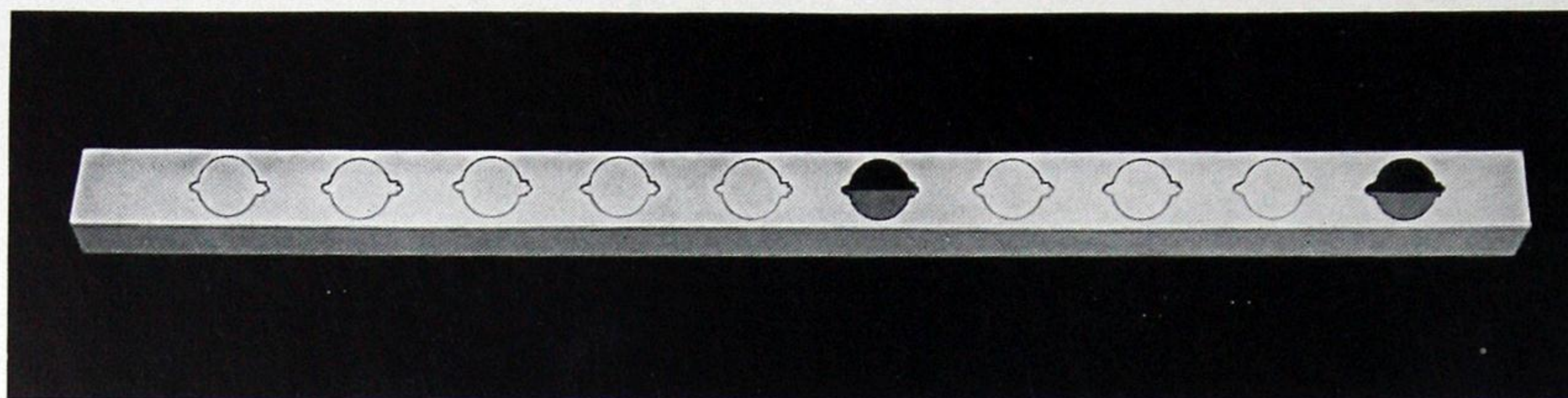
PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA



PERMAFLECTOR KNOCKOUT STRIP

(Patented)

For Use With Incandescent Lamps



No. KO-1. Furnished in 10-foot Lengths with Knockouts 3 inches on Centers

KNOCKOUT STRIP NO. KO-1

Permaflector Knockout Strip is wiring duct or conduit for unit assembly of reflector type illumination equipment. Provides a time and money-saving method of installation in show windows and for many other applications. May be used with any standard reflector and shade holder.

It consists of two main parts: the face and the back. The face is provided with suitably shaped knockouts spaced three inches on centers, providing for quick installation of sockets on any desired spacing. The back fits closely over the face covering three sides of the strip, assuring ample protection to the wiring.

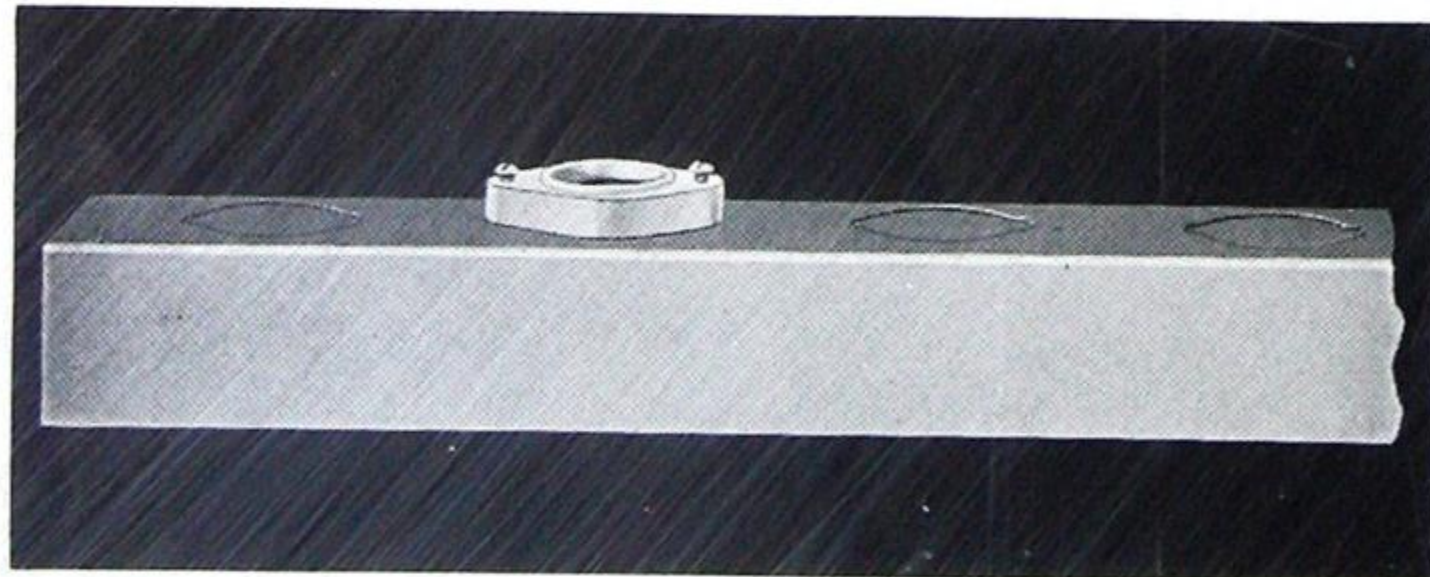
The square shape of Knockout Strip is a new idea in wiring duct construction. With Knockout Joint No. KO-4, it is now possible to turn corners vertically as well as horizontally.

Requires no bending, drilling or punching and a minimum of cutting on the job. Hack-saw and screw-driver are the only tools required.

Material is corrosion-proof and finished in standard Permaflector silver colored satin finish.

Permaflector Knockout Strip is furnished in standard ten-foot lengths.

Size.....1 3/4 in. square
Standard Quantity.....Six 10-ft. lengths
Weight.....Approx. 80 lbs.
Retail Price, Each Length.....\$4.00
Code:KAYOSTRIP



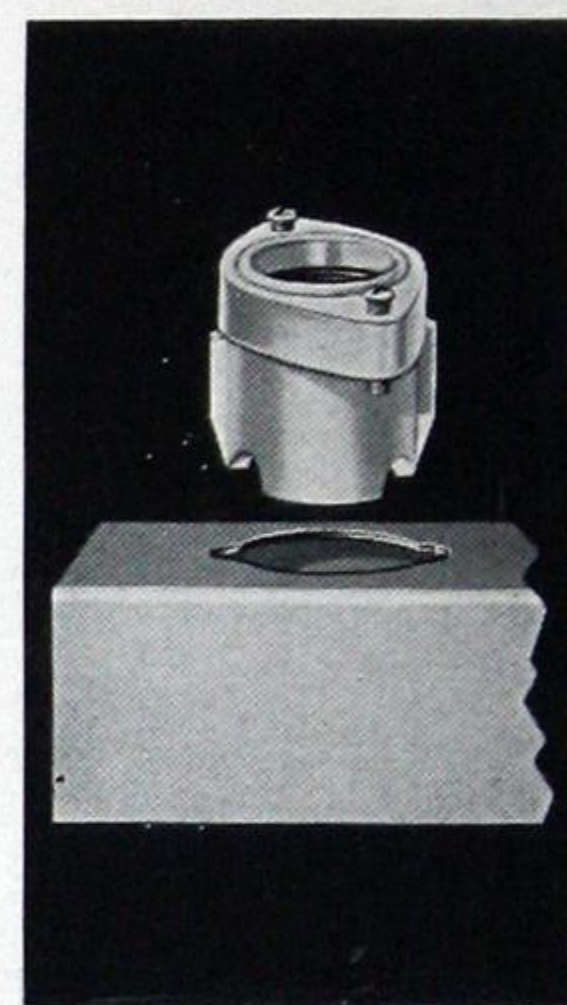
Knockout Socket Inserted in Knockout Strip

The screws for attaching the Permaflector adapter or shade holder when tightened engage the slots in the Knockout Strip, thus locking the socket firmly in position. The wiring is easy and simple; the back member being off, the binding screws in the sockets are exposed, convenient for quick wiring. Weight of reflector carried on lugs of socket.

KNOCKOUT SOCKET NO. KO-8

Permaflector Knockout Socket is a porcelain medium screw socket especially designed for Knockout Strip. It has no springs or other parts to get out of order. Merely insert socket in knockout opening and turn. The socket can be inserted in only one position, thus automatically fixing the polarity and lining up the conductor connections.

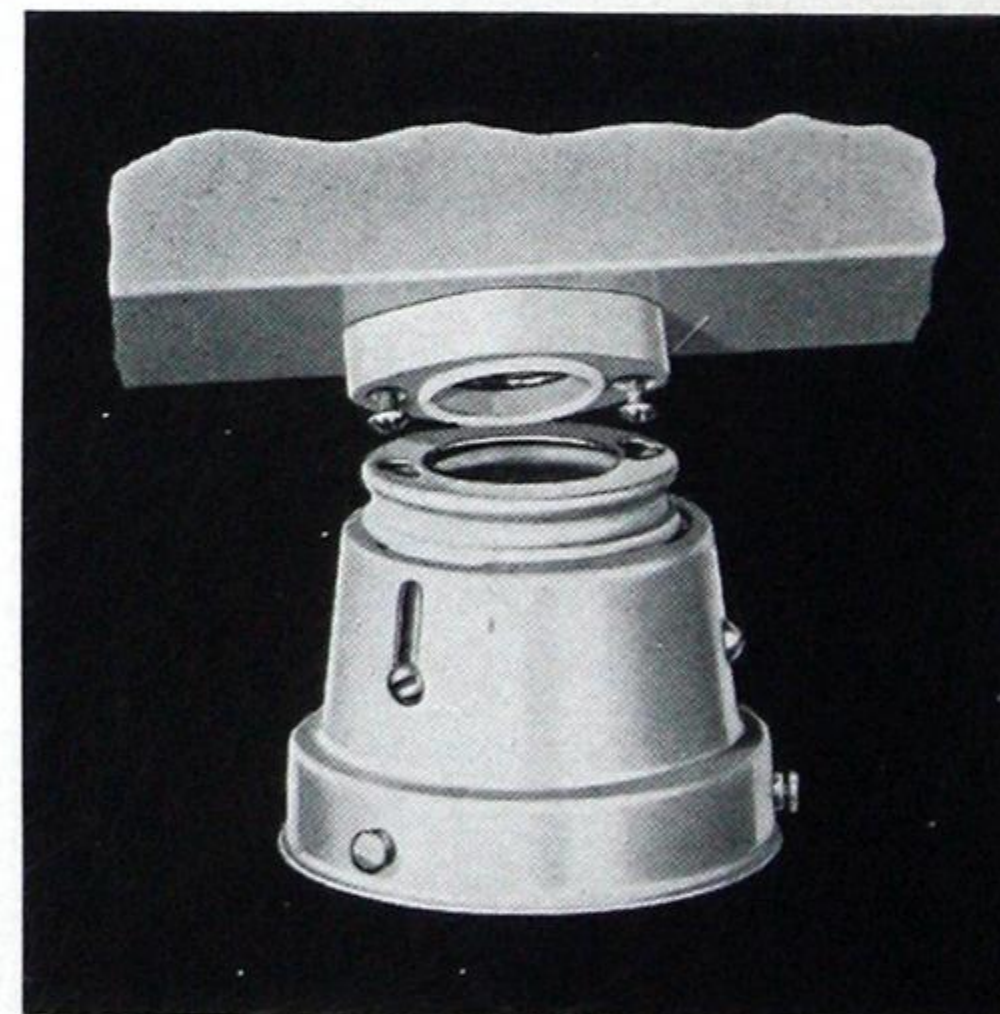
Standard Quantity.....60
Weight.....Approx. 13 lbs.
Retail Price, Each.....\$0.35
Code:KAYOSOCK



Socket No. KO-8

TO ATTACH ADAPTERS

Loosen the two screws in socket. Place large holes of opening in rim of adapter over the screw heads, and turn slightly so that screw heads engage in smaller portion of the openings. Then tighten screws (screw heads are then within the adapter).

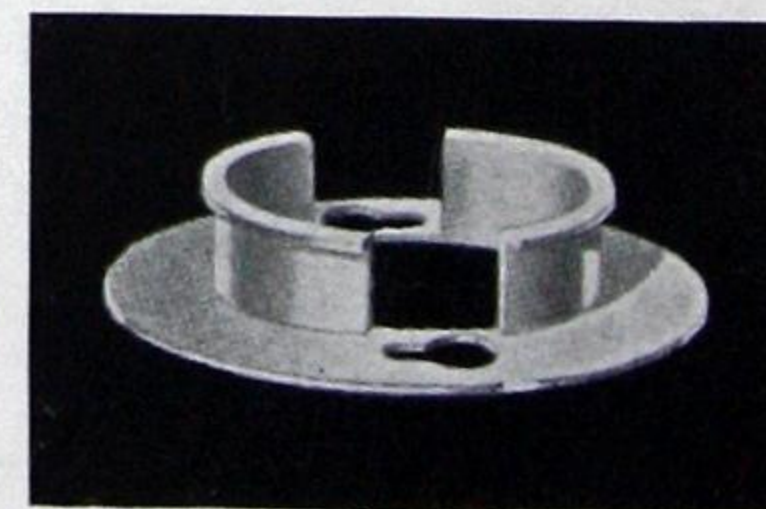


Do not attempt to assemble by putting the receptacle inside the adapter. The "S" Holder and the Knockout Fitter No. KO-9 are attached in same manner as adapters.

KNOCKOUT FITTER NO. KO-9

Provides shade holder groove for attaching any standard holder. It is attached in same manner as adapters.

Standard Quantity.....25
Weight.....Approx. 1 lb.
Retail Price, Each.....\$0.25
CodeKAYOFITTER

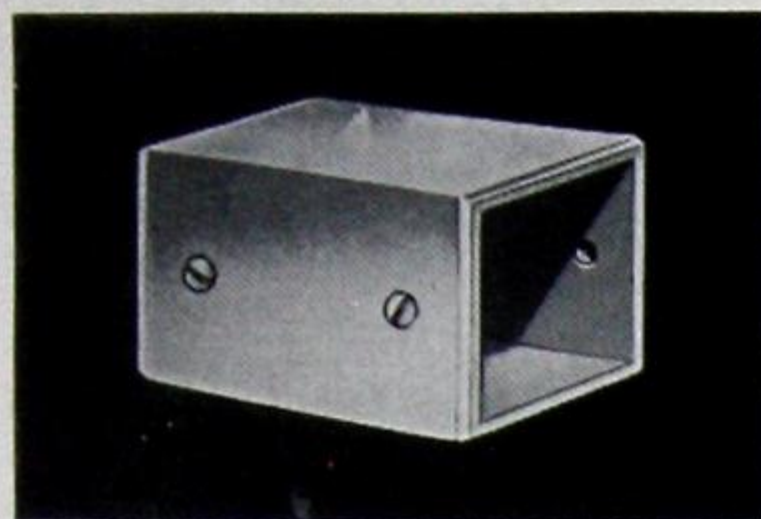


Fitter No. KO-9



PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA

KNOCKOUT COUPLING NO. KO-3

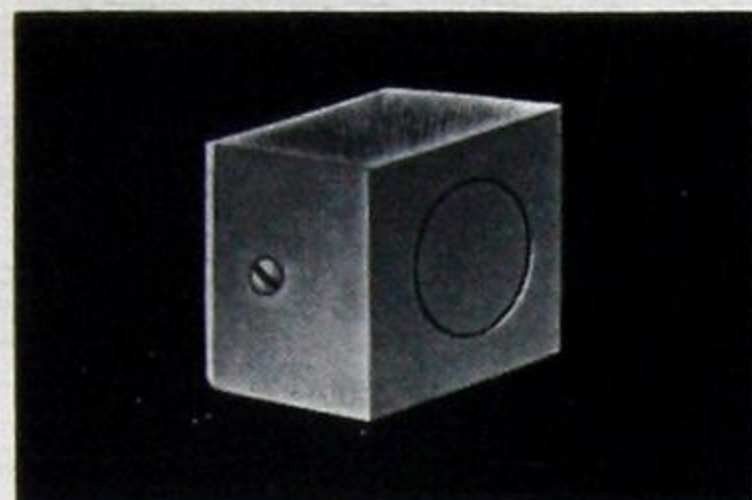


Coupling No. KO-3

Permaflexor Knockout Coupling is used for joining together lengths of Knockout Strip. It is fixed in position by means of set screws.

Standard Quantity10
WeightApprox. 7 lbs.
Retail Price, Each.....\$0.75
Code:KAYOCOUP

KNOCKOUT END NO. KO-2

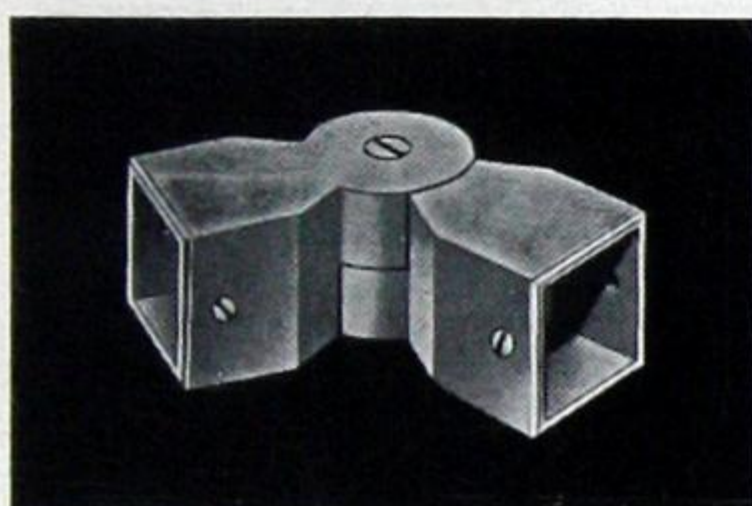


End No. KO-2

Permaflexor Knockout End is used at the end of Knockout Strip. It is provided with a knockout for standard 3/4-inch conduit or BX connector. It is held fixed by set screws furnished.

Standard Quantity10
WeightApprox. 4 1/2 lbs.
Retail Price, Each.....\$0.60
Code:KAYEND

KNOCKOUT JOINT NO. KO-4



Joint No. KO-4

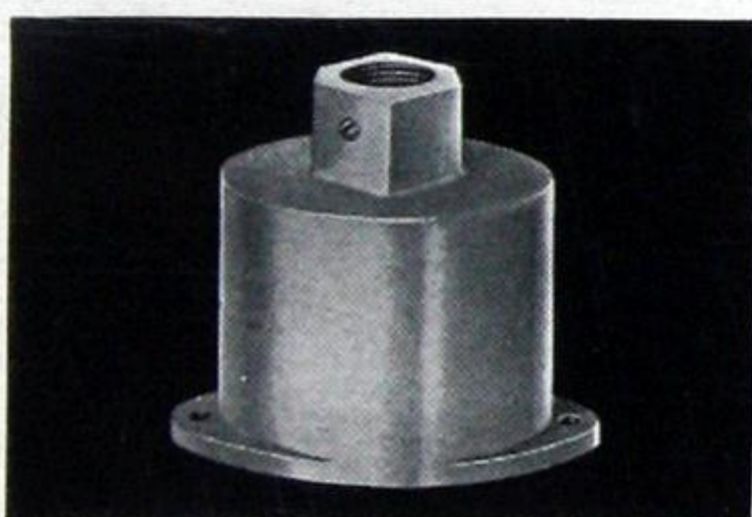
Standard Quantity—8
Code

Permaflexor Knockout Joint slips over the Knockout Strip and is fixed in place by the set screws. Permits any angle to be made between adjacent sections of Knockout Strip from 65 to 180 degrees, inclusive. Being square it is reversible on the Knockout Strip.

Weight, Approx. 14 lbs.
Code.....KAYOJOINT

Retail Price, Each.....\$1.50

KNOCKOUT BOX NO. KO-11



Box No. KO-11

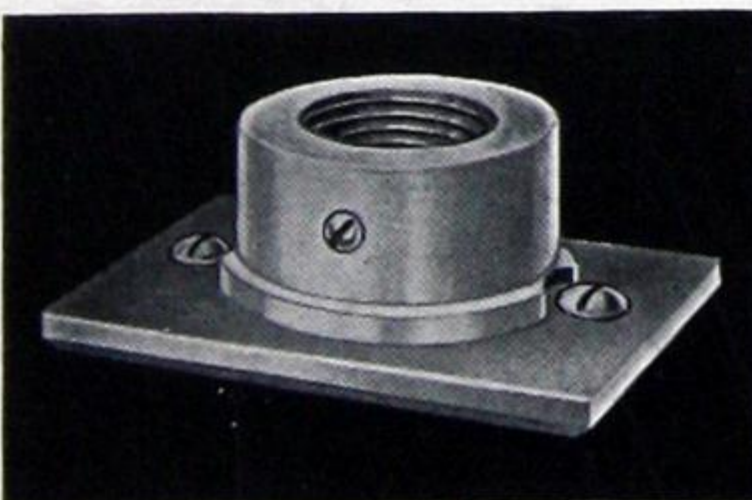
Standard Quantity—10
Code

Attaches to 1/2 inch conduit stem hanger or nipple. Accommodates Mogul Socket No. 4 and No. 5 and Holders used therewith as used with Permaflexors No. 500, 555, E-500 and I-505. In combination with Knockout Strip, Knockout Hub No. KO-10, 1/2 inch nipple or hanger, provides the convenient method of wiring.

Weight, Approx. 7 lbs.

Code.....KAYOBOX
Retail Price, Each.....\$1.00

KNOCKOUT HUB NO. KO-10



Hub No. KO-10

Fits into knockout in face of Strip and is fixed in position by two screws. Permits attachment of 500-watt reflector equipment supported on 1/2 inch conduit stems. Makes it possible to enter face of Strip at any convenient point either with 1/2 inch rigid conduit, cord and 1/2 inch porcelain bushing or armored cable and 1/2 inch cable connector. Particularly useful for flush mounting window lighting installations, where connection from wiring duct to individual reflectors is made by means of armored cable.

Standard Quantity10
Retail Price, Each.....\$0.60
WeightApprox. 3 lbs.
Code:KAYOHUB

As hub appears when in place in conduit

KNOCKOUT FLANGE NO. KO-12

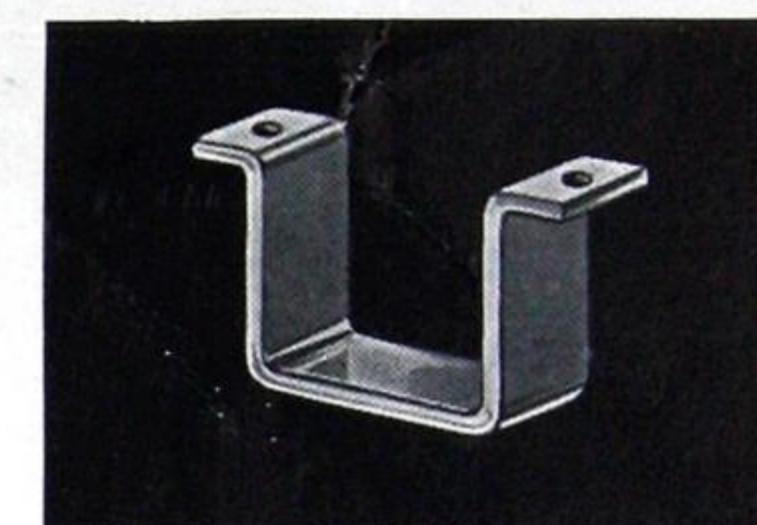


Flange No. KO-12

Screws into Hub No. KO-10, Flange provides base for support of Permaflexor Interior Spots and Floods. Three No. 8/32 machine screws furnished for fastening spot and flood bases in position.

Standard Quantity10
WeightApprox. 2 1/4 lbs.
Retail Price, Each.....\$0.60
Code:KAYOFLANGE

KNOCKOUT U-STRAP NO. KO-7



U-Strap No. KO-7

Permaflexor Knockout U-Strap is designed for surface mounting of Knockout Strip. It fits neatly around the Knockout Strip. Use No. 9 wood screw for fastening in position.

Standard Quantity10
WeightApprox. 2 lbs.
Retail Price, Each.....\$0.15
Code:KAYUSTRAP

KNOCKOUT BRACKET NO. KO-5

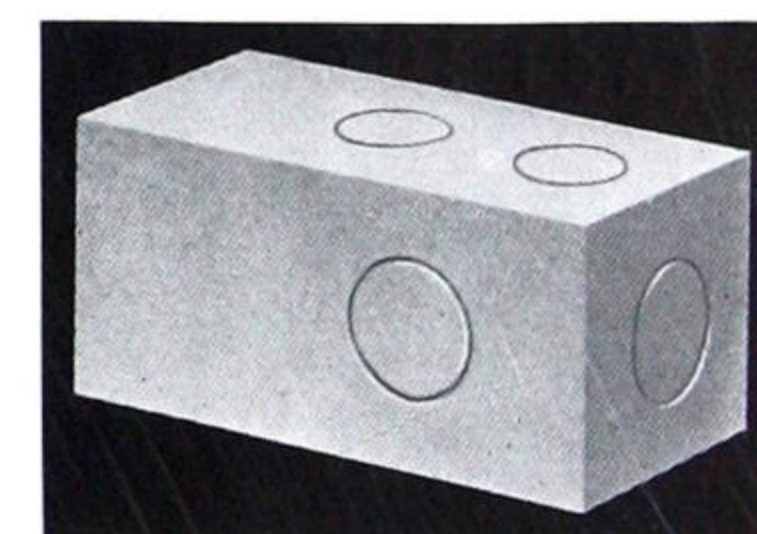


Bracket No. KO-5

Permaflexor Knockout Bracket is designed for supporting Knockout Strip from the transom bar, or other vertical surfaces. A set screw furnished in the Knockout Bracket fixes the Knockout Strip in position. Use No. 9 wood screw for fastening in position.

Standard Quantity6
WeightApprox. 9 lbs.
Retail Price, Each.....\$0.63
Code:KAYOBRAK

KNOCKOUT SPLICE BOX NO. KO-14



Splice Box No. KO-14

Permaflexor Knockout Splice Box is used at the end of Knockout Strip instead of End KO-2, where it is desired to enter with more than one conduit or armored cable. It has removable cover for access to box when splicing wires; and has 3/4 inch knockout in bottom and in end and two 1/2 inch knockouts in each side.

Standard Quantity—8 Weight, Approx. 9 lbs.
Retail Price, Each.....\$1.25
Code:KOSPLI

KNOCKOUT HANGER NO. KO-6

Permaflexor Knockout Hanger is used for supporting Knockout Strip at a distance below the ceiling. It is adjustable from 20 to 37 inches and if legs are cut with hack-saw at desired points, can be used for shorter suspension than 20 inches. A set screw fixes Knockout Strip in position. Use No. 9 wood screws for fastening in position.

Standard Quantity—6 Weight, Approx. 15 lbs.
Retail Price, Each.....\$1.20
Code:KAYOHANG

Hanger No. KO-6



PERMAFLECTOR EASY-TO-INSTALL CONDUIT

"Easy-to-Install" Conduit avoids necessity of cutting through ceiling or wall for each receptacle and makes it possible to space lamps properly to get even light distribution. **Made to order to fit each job.**



Conduit No. 1

EASY-TO-INSTALL CONDUIT NO. 1

May be used with any window, case or industrial type Permaflector of 300 Watt medium base lamp capacity or less. **Size**—1 $\frac{3}{8}$ inches high; 1 $\frac{3}{4}$ inches wide.

Accommodates six No. 12 wires.

Consists of:

- 20-gauge galvanized steel channels, face and back.
- Porcelain Sockets No. 1.
- End Caps No. EC-1 with $\frac{1}{2}$ inch knockout.
- Couplings, if conduit length exceeds 10 feet.

Standard Quantity—Any length. Made to order to fit job.

Code: Conduit No. 1.....**CONDUTONE**

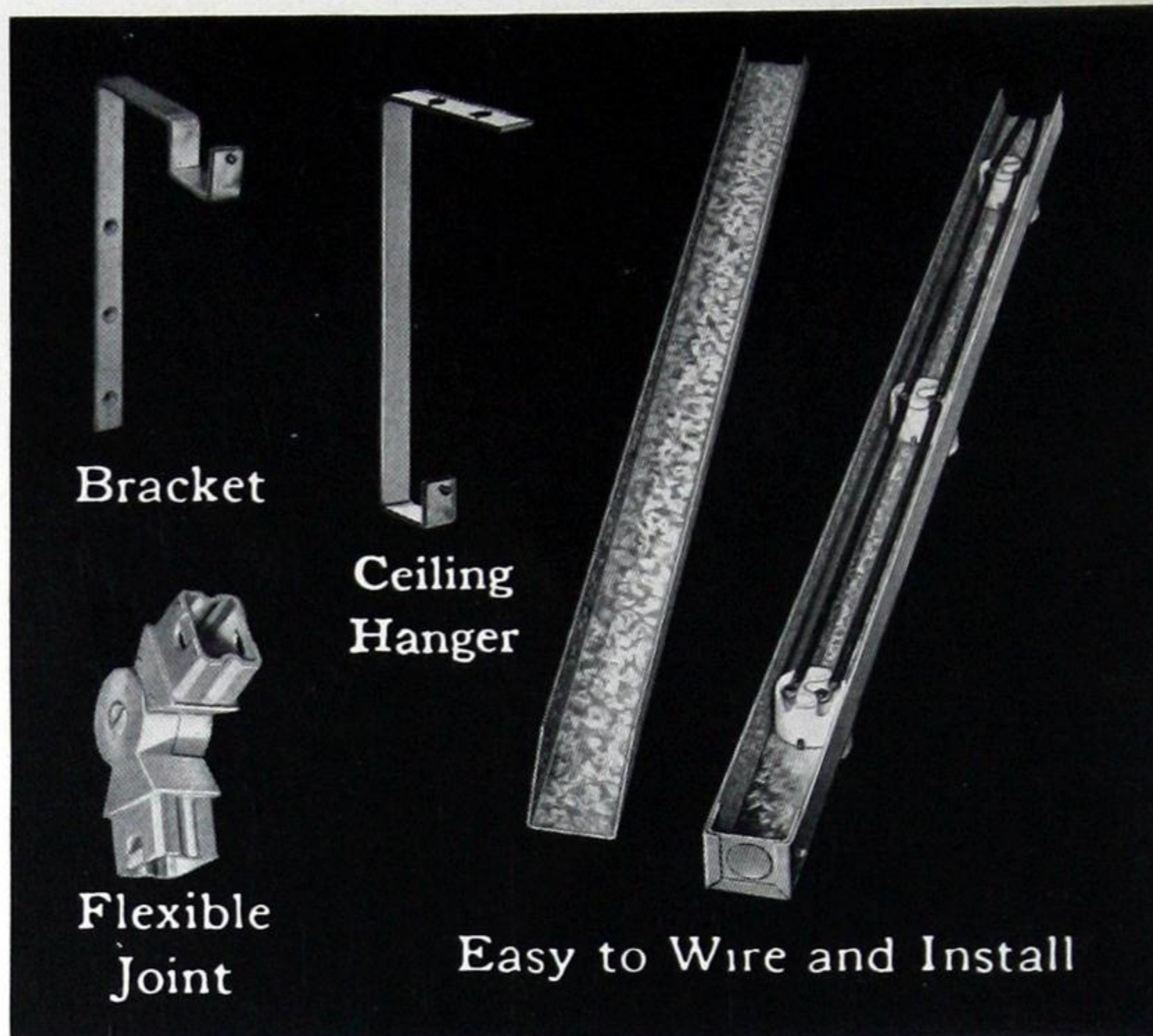
Retail Price — (Not Wired)

Per outlet with Sockets No. 1 spaced 12" on centers.....\$1.10

For Wider Spacing, add 5c per outlet for each additional inch over 12" on centers.

For Lesser Spacing, deduct 5c per outlet for each inch less than 12" on centers.

Wiring is very simple: the back member being lifted off, the binding screws in the receptacles are exposed; can then be quickly wired.



Bracket

Ceiling Hanger

Flexible Joint

Easy to Wire and Install

EASY-TO-INSTALL CONDUIT NO. 12

Same as Conduit No. 1 except equipped with grooved porcelain Socket No. 2. Retail Price, Size and Standard Quantity same as Conduit No. 1.

Code: Conduit No. 12.....**CONDUTWEL**

EASY-TO-INSTALL CONDUIT NO. 6

Punched to accommodate Porcelain Mogul Sockets Nos. 4 and 5, not wired. For use with Permaflectors Nos. 500, 555, E-500, C-300, mogul sockets and holders of which attach directly to the conduit.

Size—2 $\frac{1}{8}$ inches high; 2 $\frac{3}{4}$ inches wide.

Accommodates 6 circuits, or twelve No. 12 wires.

Consists of:

- 20-gauge galvanized steel channels, face and back
- End Caps No. EC-6 with $\frac{1}{2}$ inch knockout.
- Couplings included if conduit length exceeds 10 feet.

Standard Quantity—Any length. Made to order to fit job.

Code: Conduit No. 6.....**CONDUSIX**

Retail Price—(Not Wired—Sockets Not Included)

Per outlet spaced 12 inches on centers.....\$1.00

For Wider Spacing, add 5c per outlet for each additional inch over 12" on centers.

For Lesser Spacing, deduct 5c per outlet for each inch less than 12" on centers.

EASY-TO-INSTALL CONDUIT NO. 2-A

Same as Conduit No. 1 except equipped with porcelain Angle Socket No. 3. Angle Sockets make it possible to rotate P-type Permaflectors on their axes after installation is completed and burning, thus assuring best light distribution.

Standard Quantity—Any length. Made to order to fit job.

Code: Conduit No. 2-A.....**CONTUA**

Retail Price—(Not Wired—Holders Not Included)

Per Outlet with Angle Socket No. 3 spaced 12 inches on centers.....\$2.00

For Wider Spacing, add 5c per outlet for each additional inch over 12" on centers.

For Lesser Spacing, deduct 5c per outlet for each inch less than 12" on centers.

ADDITIONAL CONDUIT FITTINGS

Standard Quantity—One When Ordered With Conduit

For Use With Conduit Nos. 1, 12 and 2-A	Retail Price Each	Code
Convenience Outlets: Using Socket No. 1.....	\$0.40	CONDUTOUT
Using Flush Plug Receptacle.....	0.55	CONDUFLUSH
Flexible Joint No. FJ-1.....	2.00	CONJOINT
U-Strap No. U-1.....	0.15	USONE
Additional End Caps No. EC-1.....	0.35	ENDCAPONE
Transom Bar Bracket No. BR-1..... Vertical member 10 inches long. Holds Conduit 5 $\frac{1}{2}$ inches from face of transom bar to center line of conduit.	0.66	CONBRACK
Ceiling Hanger No. CH-1..... Standard lengths 6, 8, 10, 12, 14, 18 and 20 inches. Prices on request for special lengths.	0.75	CEHANG

For Use With Conduit No. 6	Retail Price Each	Code
Convenience Outlets: Using Socket No. 1.....	\$0.40	CONDUTOUT
Using Flush Plug Receptacle.....	0.55	CONDUFLUSH
Flexible Joint No. FJ-6.....	2.50	CONSIXJOIN
U-Strap No. U-6.....	0.25	USSIX
Additional End Caps No. EC-6.....	0.35	ENDCASIX
Transom Bar Bracket No. BR-6..... Vertical member 14 inches long. Holds Conduit 6 inches from face of transom bar to center line of conduit.	0.66	CONSIXBRAC
Ceiling Hanger No. CH-6..... Standard lengths 6, 8, 10, 12, 14, 18 and 20 inches. Prices on request for special lengths.	0.75	CEHANGSIX



PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA

OUTLET BOX COVER ASSEMBLIES NO. B-1 SERIES



No. B-1-3 1/4-L

Consists of a 3 1/4 inch or 4 inch outlet box cover, equipped with "Pittsburgh" Porcelain Socket No. 1 arranged to accommodate "Pittsburgh" Adapters. Fits any standard 3 1/4 inch or 4 inch outlet box having depth of 1 1/2 inches.

May be used with Adapters No. 1234 and 1256, Form 'S', 'L', 'LC' or 'LCA' holders and any of the Permaflectors they are used with.

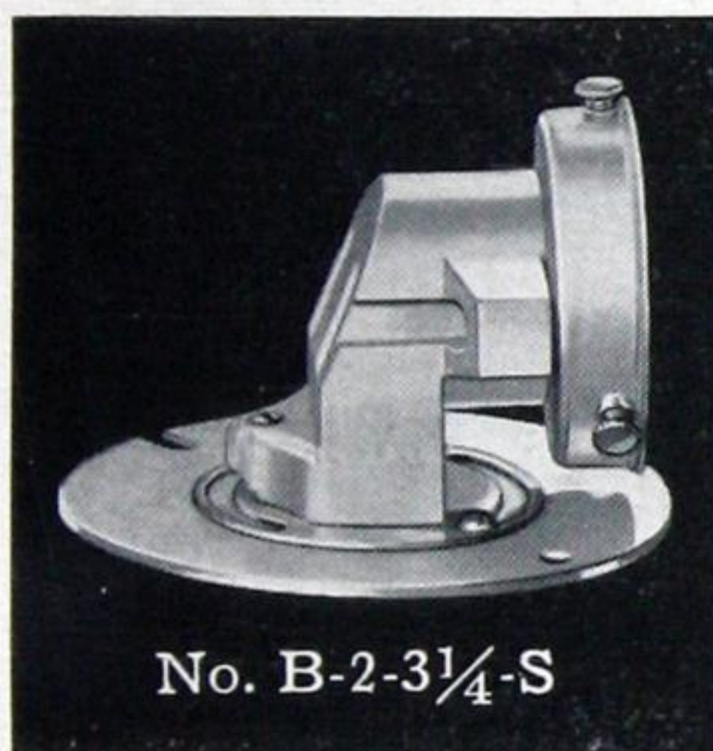
(For Use With 3 1/4" Outlet Box)

Assembly No.	Including Holder No.	Std. Quan.	Wgt. Approx. Lbs.	Retail Price Each	Code
B-1-3-1/4	None	50	20	\$0.45	BONETHRE
B-1-3-1/4-S	2 1/4" Form "S"	50	23	.60	BONETHRESS
B-1-3-1/4-SL	2 1/4" Form "SL"	50	24	.60	BONETHRESL
B-1-3-1/4-L	2 1/4" Form "L"	50	25	.70	BONETHREL
B-1-3-1/4-LC	2 1/4" Form "LC"	50	25	.70	BONETHRELC
B-1-3-1/4-LCA	2 1/4" Form "LCA"	50	26	.70	BONETHRELC

(For Use With 4" Outlet Box)

B-1-4	None	50	26	.45	BONEFOR
B-1-4-S	2 1/4" Form "S"	50	29	.60	BONEFORES
B-1-4-SL	2 1/4" Form "SL"	50	30	.60	BONEFORESL
B-1-4-L	2 1/4" Form "L"	50	31	.70	BONEFOREL
B-1-4-LC	2 1/4" Form "LC"	50	31	.70	BONEFORLSE
B-1-4-LCA	2 1/4" Form "LCA"	50	32	.70	BONEFORLCA

OUTLET BOX COVER ASSEMBLIES NO. B-2 SERIES



No. B-2-3 1/4-S

For jobs where the cove is a circle or ellipse with short radius. In such coves it is not practicable to use "Pittsburgh" Conduit because of the curvature.

The assembly No. B-2-3 1/4-S and B-2-3 1/4-L of outlet box cover, angle socket and shade holder illustrated herewith makes it convenient to use the Permaflectors No's. P-25, P-40, P-75-A, P-76, P-101, P-151, and P-201, in cove lighting work.

It does not matter in what position the outlet box is installed, since by means of the slotted center piece the socket may be rotated into alignment with the cove.

(For Use With 3 1/4" Outlet Box)

Assembly No.	Including Holder No.	Std. Quan.	Wgt. Approx. Lbs.	Retail Price Each	Code
B-2-3-1/4	None	50	36	\$.95	BETUTHRE
B-2-3-1/4-S	2 1/4" Form "S"	50	39	1.10	BETUTHRESS
B-2-3-1/4-SL	2 1/4" Form "SL"	50	40	1.10	BETUTHRESL
B-2-3-1/4-L	2 1/4" Form "L"	50	41	1.20	BETUTHRELL
B-2-3-1/4-LC	2 1/4" Form "LC"	50	41	1.20	BETUTHRELLSE

(For Use With 4" Outlet Box)

B-2-4	None	50	41	.95	BETUFOR
B-2-4-S	2 1/4" Form "S"	50	44	1.10	BETUFORESS
B-2-4-SL	2 1/4" Form "SL"	50	45	1.10	BETUFORESL
B-2-4-L	2 1/4" Form "L"	50	46	1.20	BETUFOREL
B-2-4-LC	2 1/4" Form "LC"	50	46	1.20	BETUFORELSE

OUTLET BOX COVER ASSEMBLY NO. B-3



B-3

No. B-3 consists of Pittsburgh Mogul Socket No. 4, with 4 inch outlet box cover, raised cover. Fits any 4 inch outlet box 1 1/2 inches deep. Used with Permaflectors No. 500, 555, C-300-A, C-500-A, E-500, E-530, I-505, B-508, B-1001.

Standard Quantity—50.
Weight, Approx. 50 lbs.
Retail Price, Each.....\$1.25
CodeBETHREE

OUTLET BOX COVER ASSEMBLY NO. B-33

No. B-33 consists of Three-Light Mogul Socket No. 5 with 4" outlet box cover, raised cover. It is identical to B-3 except as to the two filament construction of socket No. 5.

Standard Quantity—50
Weight, Approx. 50 lbs.
Retail Price, Each.....\$1.50
CodeBETRETRE

OUTLET BOX COVER ASSEMBLY NO. B-33-SL

Same as No. B-33 except equipped with 3 1/4" Form "SL" Holder.

Standard Quantity—50
Weight, Approx. 55 lbs.
Retail Price, Each.....\$1.95
CodeBETRETRESL

PERMAFLECTOR SOCKETS

Porcelain Socket No. 1

(Medium Base)



No. 1
Socket

Standard Quantity—100
Weight, Approx. 21 lbs.
Retail Price, Each.....\$0.30
CodeRECEPTONE

Porcelain Socket No. 2

(Medium Base)

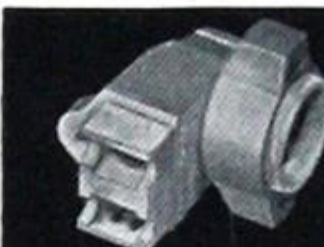


No. 2
Socket

Standard Quantity—100
Weight, Approx. 21 lbs.
Retail Price, Each.....\$0.30
CodeRECEPTU

Porcelain Angle Socket No. 3

(Medium Base)



No. 3
Angle Socket

Standard Quantity—100
Weight, Approx. 46 lbs.
Retail Price, Each.....\$0.90
CodeRECEPTHREE

Porcelain Mogul Socket No. 4



No. 4
Socket

Standard Quantity—50
Weight, Approx. 36 lbs.
Retail Price, Each.....\$1.00
CodeRECEPTFOUR

Porcelain Mogul Socket No. 5

(For Use With Three-Light Lamps)

Same as Porcelain Mogul Socket No. 4 but has the two filament construction.

Standard Quantity—50
Weight, Approx. 36 lbs.
Retail Price, Each.....\$1.25
CodeRECEPTFIVE



No. 17
Socket

Porcelain Mogul Socket No. 17

(For Use With Luminaires of 500 Watt Capacity)

Standard Quantity—10
Weight, Approx. 6 lbs.
Retail Price, Each.....\$0.45
CodeRECEPONSET



No. 30
Socket

Porcelain Mogul Socket No. 30

(For Use With Luminaires of 1000 Watt Capacity)

Standard Quantity—10
Weight, Approx. 6 lbs.
Retail Price, Each.....\$0.95
CodeRECEPTUNIN



No. 78
Bi-post
Socket

Porcelain Med. Bi-Post Socket No. 78

(For Use With Luminaires of 500 to 1000 Watt Capacity Using Bi-Post Lamps)

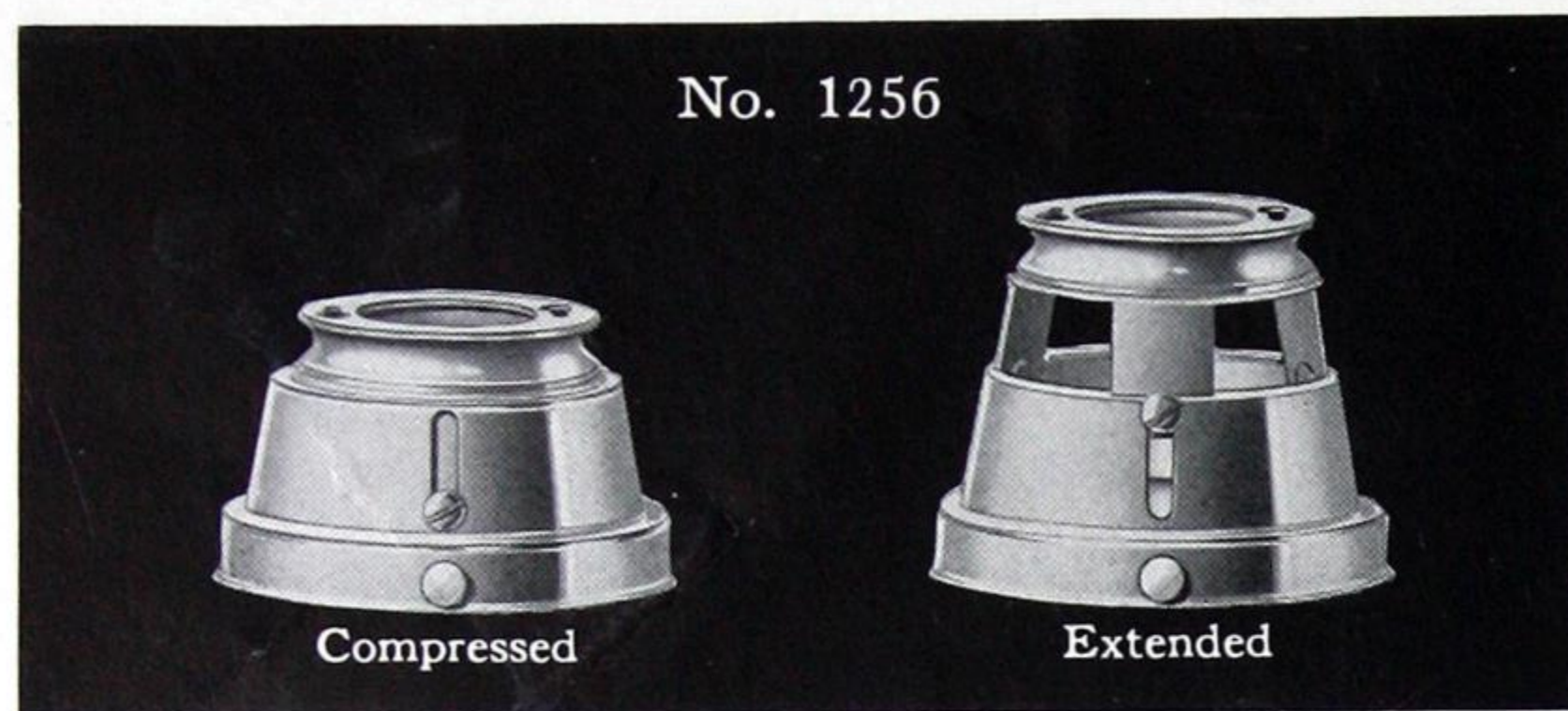
Standard Quantity—10
Weight, Approx. 7 lbs.
Retail Price, Each.....\$1.65
CodeRECEPBIPO



HOLDER ADAPTERS

(Sprayed and Baked Aluminum Finish)

The use of the wrong adapter changes the focal center of the lamp in its relation to the reflector, hence alters the distribution of the lighting and lessens the lighting effectiveness. The adapter is part of the reflector and must be used therewith.



No. 1256

ADAPTER NO. 1256

Standard Quantity—50 Weight, Approx. 16 lbs.
Retail Price, Each.....\$0.50
CodeADAPTFISIX

ADAPTER NO. 1256-R



Adjustability same as No. 1256. For use with grooved porcelain medium base sockets.

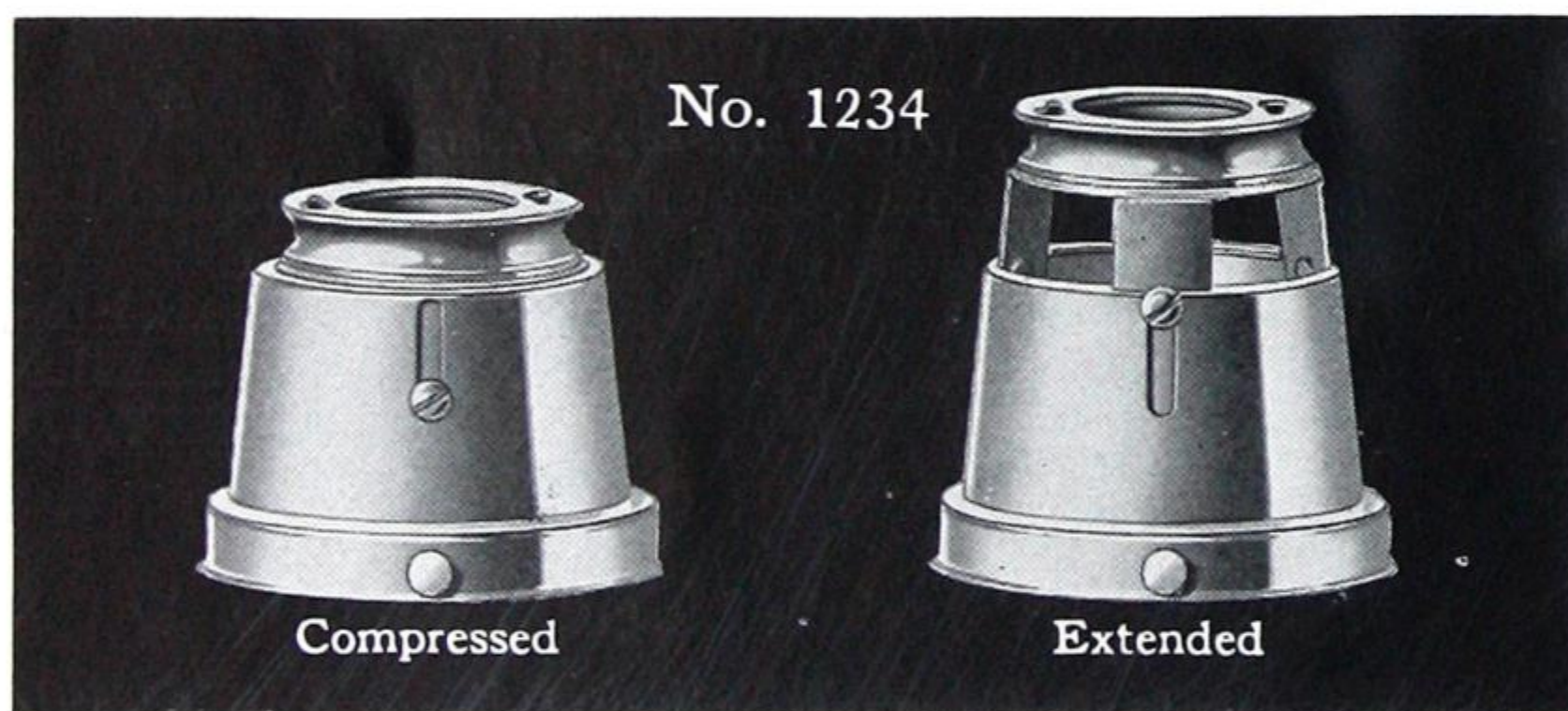
Std. Quantity—50 Weight, Approx. 16 lbs.
Retail Price, Each.....\$0.50
CodeADAFISIXAR

ADAPTER NO. 42



Adjustability same as No. 1256. For use with Mogul Socket No. 4 and Two Filament Mogul Socket No. 5.

Standard Quantity—50 Weight, Approx. 16 lbs.
Retail Price, Each.....\$1.25
CodeHOLDFORTU



No. 1234

ADAPTER NO. 1234

Standard Quantity—50 Weight, Approx. 17 lbs.
Retail Price, Each.....\$0.50
CodeADAPTREFOR

ADAPTER NO. 1234-R



Adjustability same as No. 1234. For use with grooved porcelain medium base sockets.

Std. Quantity—50 Weight, Approx. 17 lbs.
Retail Price, Each.....\$0.50
CodeADATRIFOAR

ADAPTER NO. 810



Adjustability same as No. 1234. For use with Mogul Socket No. 4 and Two Filament Mogul Socket No. 5.

Standard Quantity—50 Weight, Approx. 16½ lbs.
Retail Price, Each.....\$1.25
CodeHOLDATETEN

HOLDERS

(Sprayed and Baked Aluminum Finish)

2¼" FORM 'S' HOLDER



Standard Quantity—50 Weight, Approx. 4 lbs.
Retail Price, Each.....\$0.16
CodeHOLDESS

2¼" FORM 'SL' HOLDER



Standard Quantity—50 Weight, Approx. 6 lbs.
Retail Price, Each.....\$0.16
CodeHOLDESL

2¼" FORM 'L' HOLDER



Standard Quantity—50 Weight, Approx. 6½ lbs.
Retail Price, Each.....\$0.25
CodeHOLDEREL

2¼" FORM 'LC' HOLDER



Standard Quantity—50 Weight, Approx. 7 lbs.
Retail Price, Each.....\$0.25
CodeHOLDELSEE

2¼" FORM 'LCA' HOLDER



Standard Quantity—50 Weight, Approx. 8½ lbs.
Retail Price, Each.....\$0.25
CodeHOLDERCA

HOLDER NO. 14



This is a 7" safety holder for use with Perma-reflector No. I-1005 series.

Standard Quantity—10 Weight, Approx. 9 lbs.
Retail Price, Each.....\$3.00
CodeHOLDONFO

3¼" FORM 'S' HOLDER



For use with Socket No. 1 for 250 watt G-30 Floodlight Lamp.

Standard Quantity—50 Weight, Approx. 8½ lbs.
Retail Price, Each.....\$0.30
CodeHOLTRESS

3¼" FORM 'SL' HOLDER



For use with Two Filament Mogul Socket No. 5 for 100-200-300 Watt Three-Light Lamp.

Standard Quantity—50 Weight, Approx. 5 lbs.
Retail Price, Each.....\$0.45
CodeHOLTRESL

HOLDER NO. M-3



This is a 4" safety holder for use with Mogul Socket No. 4 and Two Filament Mogul Socket No. 5.

Standard Quantity—50 Weight, Approx. 21½ lbs.
Retail Price, Each.....\$0.60
CodeHOLDEMTRE

HOLDER NO. 12-A



This is a 4" safety holder for use with Perma-reflector No. C-300 series.

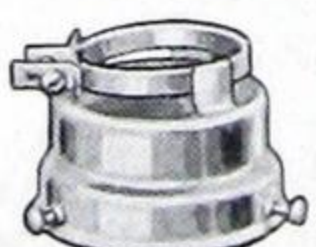
Standard Quantity—50 Weight, Approx. 27 lbs.
Retail Price, Each.....\$2.00
CodeHOLDTWELVE

2¼" FORM 'SR' HOLDER



Standard Quantity—50 Weight, Approx. 5 lbs.
Retail Price, Each.....\$0.25
CodeHOLDERSR

2¼" FORM 'LR' HOLDER



Standard Quantity—50 Weight, Approx. 6½ lbs.
Retail Price, Each.....\$0.35
CodeHOLDERELR



PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA

PERMAFLECTOR FLUSH MOUNTING RINGS

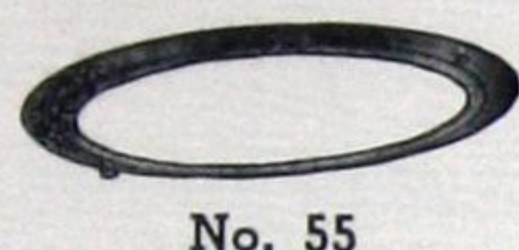
(Sprayed and Baked Aluminum Finish)

For convenience in making flush mounting installations. Pittsburgh Outlet Box Cover Assemblies, to which the Adapters or Holders of the Permaflectors are directly attached, are used. It will be noted that Permaflectors No. 105, No. 110 and No. 500 are cut off at an oblique angle. To successfully set these Permaflectors flush, it is necessary to construct the ceil-

ing with a dip towards the plate glass at the same angle.

When flush mounting Permaflectors it is necessary that the opening in the ceiling be cut to the proper size. For round reflectors merely cut round hole of diameter specified.

For high wattages in confined spaces it may be desirable to provide ventilation to prevent abnormal temperatures.



No. 55



No. 500

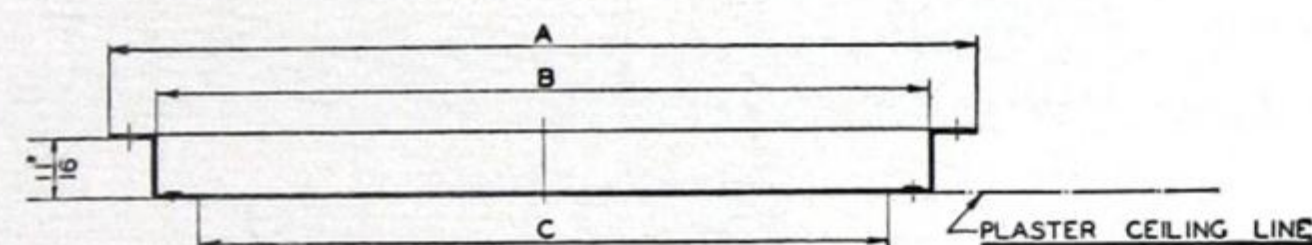
Flush Ring No.	Dia. of Hole in Ceiling	Overall Ring Dia.	Standard Quantity	Weight Approx. Lbs.	Retail Price Each	CODE
28	5 3/4"	7"	40	13	\$0.30	FLUMORATE
54	9 3/4"	11 5/8"	32	21	.50	FLUFIFOR
55	8 3/4"	10 1/8"	40	18	.42	FLUHUNTEN
73	7"	8 3/4"	48	22	.38	FLUSEVTREE
77	7 1/4"	8 3/4"	48	22	.38	FLUSEVSEV
555	12 3/4"	14"	25	17	1.00	FLUFIFI
C-100	8 3/8"	10"	40	19	.42	FLUSEEHUND
C-201	10 1/4"	11 1/2"	36	19	.65	FLUSEETONE
C-300	11 3/4"	14"	25	18	1.20	FLUSETRUN
C-500	13 3/4"	15 1/2"	25	17	1.50	FLUSEFIHUN
E-500	12 1/4"	14"	25	18	1.15	FLUIFI
I-25	4 3/4"	5 3/4"	40	11	.30	FLUREETUFI
I-201	10 1/4"	11 1/2"	40	20	.65	FLURITONE
I-1005	16 1/4"	19 1/2"	25	29	2.10	FLUFI

NON-CIRCULAR

100	Templet Free On Request	12"	40	18	.75	HUNDERING
500		15"	25	83	1.70	FLUFIHUN

PLASTER RINGS AND FRAMES

(Sprayed and Baked Aluminum Finish)



Cross Section
Applying to Plaster, Rings and Frames

When Permaflectors are to be set flush in a plastered ceiling, our plaster rings and frames are a great convenience. They make possible a perfectly finished opening in the ceiling and provide the means of conveniently attaching the flush mounting ring, hinged ceiling roundel, louvers or built-in units.

The lather installs the rings or frames. The plasterer plasters flush with bottom. The finished job is stout, rigid and workmanlike.

PLASTER RINGS

(Sprayed and Baked Aluminum Finish)

Plaster Ring No.	DIMENSIONS			Standard Quantity	Weight Approx. Lbs.	Retail Price Each	CODE
	A	B	C				
1-B	11 11/16" Dia.	10 7/8" Dia.	9 13/16" Dia.	25	12	\$0.80	PAYON
2-B	15 7/8" Dia.	14 13/16" Dia.	13 3/8" Dia.	25	19	1.30	PATU
3-B	20" Dia.	18 1/2" Dia.	17 1/4" Dia.	10	5	2.45	PATRE
4-B	9 7/8" Dia.	8 13/16" Dia.	7 13/16" Dia.	25	8	.70	PAFO
6-B	12 7/8" Dia.	11 7/8" Dia.	10 7/8" Dia.	25	13	1.00	PASIK
8-B	14 7/8" Dia.	13 13/16" Dia.	12 3/4" Dia.	25	18	1.20	PATET
10-B	18" Dia.	16 7/8" Dia.	15 1/2" Dia.	10	4	1.75	PATEN
11-B	9" Dia.	7 7/8" Dia.	7" Dia.	25	10	.65	PALEL
28	7 7/8" Dia.	6 13/16" Dia.	5 3/4" Dia.	25	10	.75	PLASTUATE
54	12 3/8" Dia.	11 1/16" Dia.	10 1/4" Dia.	25	14	.85	PLASFOR
55-A	10 7/8" Dia.	9 13/16" Dia.	8 3/4" Dia.	25	12	.80	PLASFI
77	9 5/8" Dia.	8 1/16" Dia.	7 1/4" Dia.	25	11	.75	PLASEV
555	14 7/8" Dia.	13 13/16" Dia.	12 3/4" Dia.	25	18	1.20	PLASFIFTY
C-500	16 1/8" Dia.	15" Dia.	13 3/4" Dia.	25	20	1.30	PLASEFIHUN

PLASTER FRAMES (Square)

GR-50	18 1/2" Square	17 1/4" Square	15 3/4" Square	10	14	2.00	GRAFI
GR-30	14 1/2" Square	13 1/4" Square	12" Square	10	14	1.65	GRATI
GR-10	12 3/4" Square	11 1/2" Square	10 1/4" Square	25	13	1.50	GRATEN

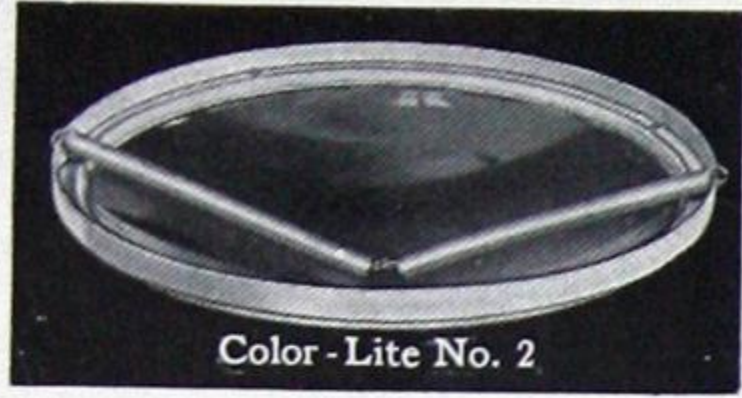


PERMAFLECTOR COLOR-LITES

GLASS COLOR-LITES (For External Mounting)

(Frames Sprayed and Baked Aluminum Finish)

Description—Consist of retainer frame with coiled springs and one pressed glass roundel in any of the colors listed.



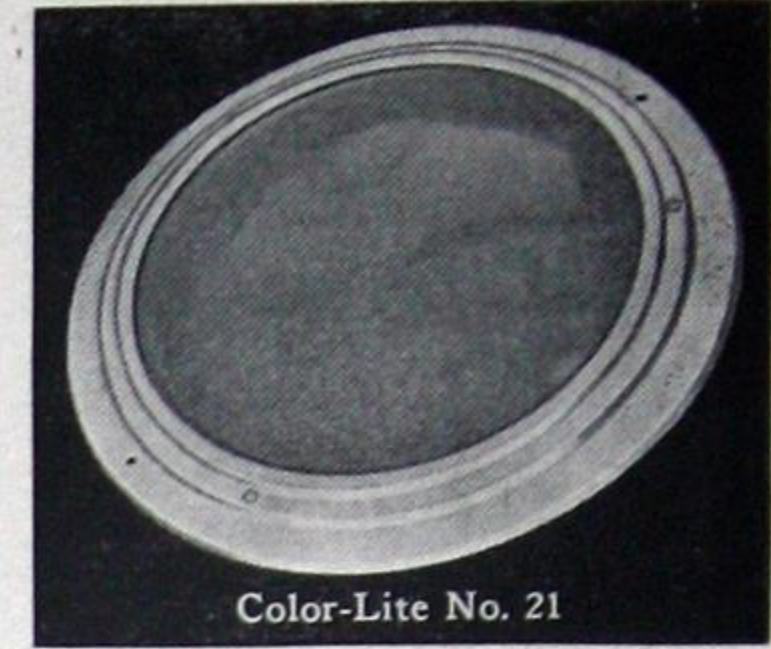
Color-Lite No. 2

A permanent color filter not subject to the faults of gelatines which fade, shrink and wrinkle. To attach merely hook the springs in holes of adapter or holder; to remove, unhook. Neither lamp nor Permaflexor need be removed.

GLASS COLOR-LITES (For Flush Mounting)

(Frames Sprayed and Baked Aluminum Finish)

Description — Consist of frame which may be attached to flush mounting ring by means of knurled head screws, and one pressed glass roundel in any of the colors listed. These Color-Lites equipped with uncolored stippled roundel, used with flush mounted reflectors, make an inexpensive substitute for Hinged Ceiling Roundels.



Color-Lite No. 21

COLOR-LITES (For External Mounting)

Color-Lite No.	Frame Dia.	Dia. of Glass Roundel Only	STANDARD COLORS AVAILABLE	Standard Quantity	Weight Approx. Lbs.	Retail Price Each
2	10 1/8"	9 7/16"	Red-Blue-Green-Amber-Moonlight	7	21	\$2.25
6	8 5/8"	8"	Red-Blue-Green-Amber-Moonlight	10	15	2.00
8	13 5/8"	13"	Red-Blue-Green-Amber	5	21	9.75
10	11 3/4"	10 3/4"	Red-Blue-Green-Amber	7	22	5.00
12-A	4 3/4"	4 3/16"	Red-Blue-Green-Amber	36	15	1.25
16	7 1/4"	6 1/2"	Red-Blue-Green-Amber-Moonlight	12	11	1.50

COLOR-LITES (For Flush Mounting)

21	11 7/8"	9 7/16"	Red-Blue-Green-Amber-Moonlight	7	21	\$2.25
41	9"	6 1/2"	Red-Blue-Green-Amber-Moonlight	12	11	1.35
61	10 3/8"	8"	Red-Blue-Green-Amber-Moonlight	10	15	2.00
81	14 1/4"	12"	Red-Amber	6	21	8.25

DAYLIGHT COLOR-LITES (For External Mounting)

Color-Lite No.	Frame Dia.	Dia. of Glass Roundel Only	Standard Quantity	Weight Approx. Lbs.	Retail Price Each	CODE
2-DB	10 1/8"	9 7/16"	7	21	\$3.75	COLORTUDA
6-DB	8 5/8"	8"	10	15	3.40	COLOSIDA
10-DB	11 3/4"	10 3/4"	7	22	6.25	COLOTEDA
12-ADB	4 3/4"	4 3/16"	36	15	2.15	COLTWELDA
16-DB	7 1/4"	6 1/2"	12	11	2.25	COLEXDA

DAYLIGHT COLOR-LITES (For Flush Mounting)

21-DB	11 7/8"	9 7/16"	7	21	\$3.75	TUONEDA
41-DB	9"	6 1/2"	12	11	2.10	FORUNDA
61-DB	10 3/8"	8"	10	15	3.40	SIXONEDA

CODE TABLE FOR ABOVE COLOR-LITES

Color-Lite No.	RED	BLUE	GREEN	AMBER	MOONLIGHT	UNCOLORED STIPPLED
2	COLTURED	COLTUBLUE	COLTUGREEN	COLTUAMB	COLTUMOON	COLTUCLEAR
6	COLSIRED	COLSIBLUE	COLSIGREEN	COLSIAMB	COLSIMOON	COLSICLEAR
8	COLAYRED	COLAYBLUE	COLAYGREEN	COLAYAMB	...	COLAYCLEAR
10	COLENRED	COLENBLUE	COLENGREEN	COLENAMB	...	COLENCLEAR
12-A	COLELRED	COLELBLUE	COLELGREEN	COLELAMB	...	COLELCLEAR
16	COLEXRED	COLEXBLUE	COLEXGREEN	COLEXAMB	COLEXMOON	COLEXCLEAR
21	TUONRED	TUONBLUE	TUONGREEN	TUONAMB	TUONMOON	TUONCLER
41	FORUNRED	FORUNBLUE	FORUNGREEN	FORUNAMB	FORUNMOON	FORUNCLEAR
61	SIXONRED	SIXONBLUE	SIXONGREEN	SIXONAMB	SIXONMOON	SIXONCLER
81	ATONRED	...	...	ATONAMB	...	ATONECLEAR



PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA

PERMAFLECTOR COLOR-LITES F SERIES



DESCRIPTION—Pressed glass roundels for use with Permaflexor Floodlights, Luminaires, Color-Lite frames and other colored lighting applications

When used in floodlight, roundel shall be installed inside unit under protection of heat resisting glass cover.

Color-Lite No.	Diameter	STANDARD COLORS AVAILABLE	Standard Quantity	Weight Approx. Lbs.	Retail Price Each
F- 1	10 ³ / ₈ "	Red-Blue-Green-Amber	10	21	\$3.30
F- 2	8"	Red-Blue-Green-Amber-Moonlight	10	13	1.40
F- 4	9 ⁷ / ₁₆ "	Red-Blue-Green-Amber-Moonlight	10	18	1.40
F- 5	12"	Red-Amber	6	20	7.50
F- 7	5 ¹ / ₂ "	Red-Blue-Green-Amber-Moonlight	60	26	.55
F- 8	6 ¹ / ₂ "	Red-Blue-Green-Amber-Moonlight	20	12	.75
F- 9	8 ³ / ₈ "	Red-Blue-Green-Amber-Moonlight	20	25	1.40
F-10	10 ³ / ₄ "	Red-Blue-Green-Amber	7	20	4.00
F-12	4 ³ / ₁₆ "	Red-Blue-Green-Amber	50	16	.50
F-13	13"	Red-Blue-Green-Amber	5	19	7.50

CODE TABLE FOR ABOVE COLOR-LITES

Color-Lite No.	RED	BLUE	GREEN	AMBER	MOONLIGHT
F- 1	EFONERED	EFONEBLUE	EFONEGREEN	EFONEAMB	
F- 2	EFTURED	EFTUBBLUE	EFTUGREEN	EFTUAMB	EFTUMMOON
F- 4	EFFORED	EFFOBLUE	EFFOGREEN	EFFOAMB	EFFOMOON
F- 5	EFIVERED			EFIVEAMB	
F- 7	EFSEVRED	EFSEVBLUE	EFSEVGREEN	EFSEVAMB	EFSEVMOON
F- 8	EFATERED	EFATEBLUE	EFATEGREEN	EFATEAMB	EFATEMOON
F- 9	EFNINRED	EFNINBLUE	EFNINGREEN	EFNINAMB	EFNINMOON
F-10	EFTENRED	EFTENBLUE	EFTENGREEN	EFTENAMB	
F-12	EFTELRED	EFTELBLUE	EFTELGREEN	EFTELAMB	
F-13	EFSIRRED	EFSIRBLUE	EFSIRGREEN	EFSIRAMB	

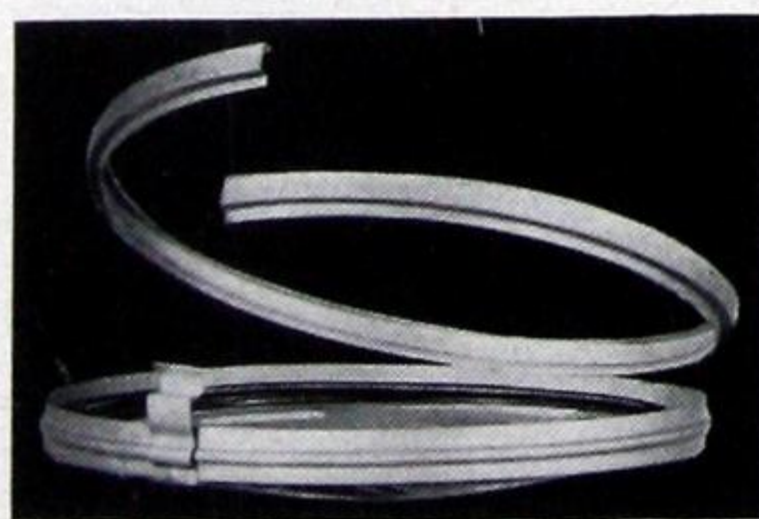
DAYLIGHT GLASS ROUNDLS

Color-Lite No.	Diameter	Standard Quantity	Weight Approx. Lbs.	Retail Price Each	CODE
F- 2DB	8"	10	13	\$2.80	COLETUDA
F- 4DB	9 ⁷ / ₁₆ "	10	18	3.00	COLFORDA
F- 7DB	5 ¹ / ₂ "	60	26	1.35	COLOSEVDA
F- 8DB	6 ¹ / ₂ "	20	12	1.50	COLOFODAY
F-10DB	10 ³ / ₄ "	7	20	4.75	COTTEDAGLA
F-12DB	4 ³ / ₁₆ "	50	16	1.40	COTWEDAGLA

COLOR-LITE NO. 4-A (Glass)

(Frames Sprayed and Baked Aluminum Finish)

Description—An improved design of Color-Lite. For use with Permaflexors Nos. 29, 73, P-75-A, P-151, P-101, P-201, E-75, I-60, Interior Flood No. WF-100.



Color-Lite No. 4-A

Standard Quantity—12

Retail Price, Each.....\$1.75

It consists of a split ring which closely fits around the rim of Permaflexor. The colored glass roundel sets in frame hinged to the split ring. A spring clasp holds the cover closed.

Colored roundel is fastened in cover ring by a split wire ring which fits in a groove in the cover rim. Diameter 6³/₄ in.

Weight, Approx. 11 lbs.

COLOR-LITE NO. 4-ADB (Glass)

Description—Same as Color-Lite No. 4-A except it is equipped with inside stippled daylight glass roundel.

Standard Quantity—12

Weight, Approx. 11 lbs.

Retail Price, Each.....\$2.50

Code:

Color-Lite No. 4-ADBCOLOFOADAB

Color-Lite No. 4-A, RedCOLFORRED

Color-Lite No. 4-A, BlueCOLFOBLUE

Color-Lite No. 4-A, GreenCOLFOGREEN

Color-Lite No. 4-A, AmberCOLFOAMB

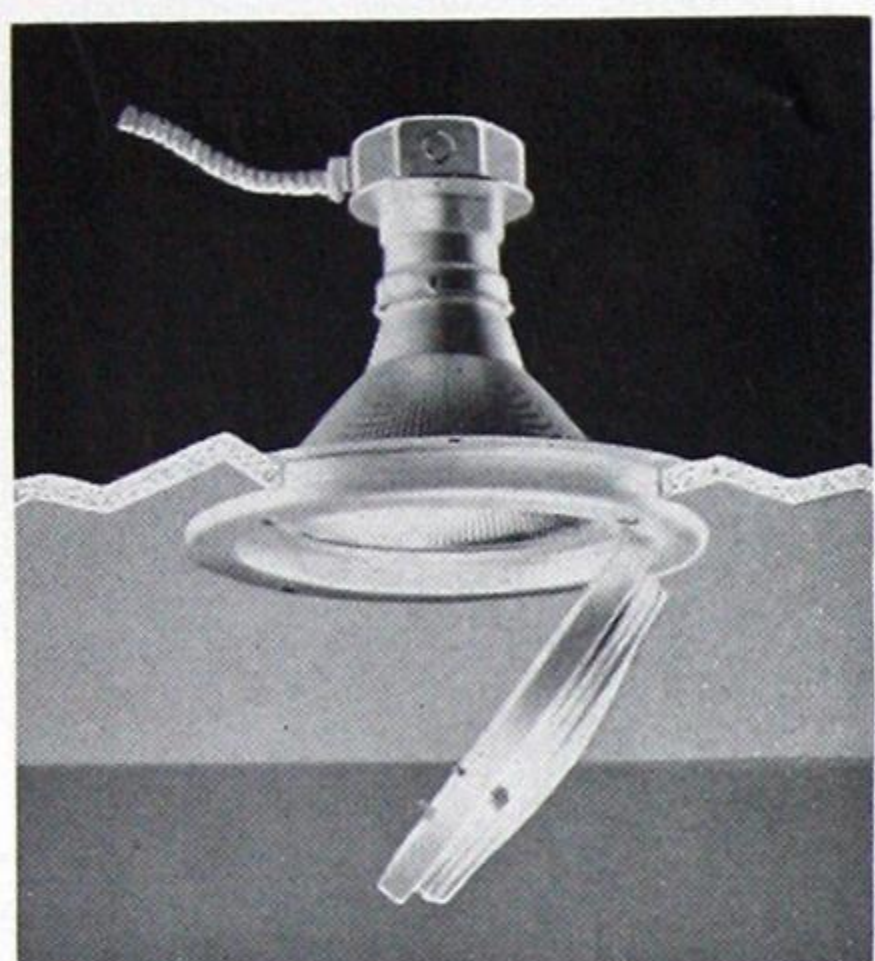
Color-Lite No. 4-A, MoonlightCOLOFOMOON

Color-Lite No. 4-A, Uncolored stippledCOLFOCLEAR





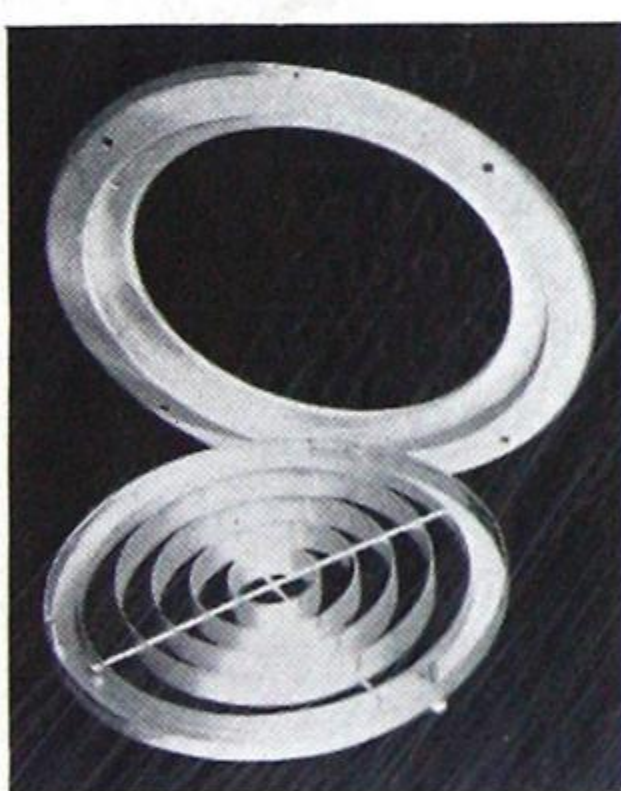
Hinged Ceiling Roundel
Installed with Permaflexor
CLOSED POSITION



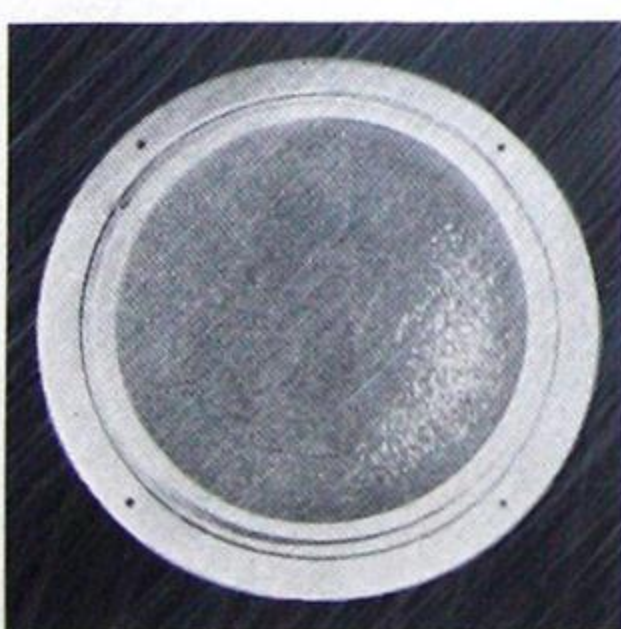
OPEN POSITION
For Servicing



Hinged Concentric
Louder—Closed Position



Hinged Concentric
Louder—Open Position



Ceiling Roundel
(Not Hinged)

HINGED CEILING ROUNDELS

(Frames Sprayed and Baked Aluminum Finish)

Here are illustrated the new Permaflexor streamlined style hinged ceiling roundels for use in recessing Permaflexors in the ceiling. The ceiling flange attaches directly to the ceiling with screws or to the plaster ring when used. The roundel frame attaches to the ceiling flange by means of a concealed hinge and is held in place with two catches, which when released permits the roundel to swing open freely.

The roundel is slightly convex, colorless, inside stippled glass and is firmly held in the frame by means of a split wire ring fitting in a groove in the frame. The roundel frame fits tightly into the ceiling flange when closed preventing leakage of light.

The Permaflexor recessed in the ceiling is seated on the ceiling flange eliminating waste of light in the space above the ceiling.

Wire guards are optional additional equipment. These fasten snugly to the hinge member and swing open with the hinged member when the unit is open. Under each Permaflexor listing here and before, we indicate the correct hinged ceiling roundel to be used therewith.

Hinged Ceiling Roundel Cat. No.	Frame Dia.	Glass Dia.	Dia. Hole in Ceiling	Plaster Ring (Optional)	Standard Quantity	Weight Approx. Lbs.	Retail Price Each	Code
1-B	11 1/4"	8 3/8"	9 3/4"	1-B	8	21	\$3.75	RONE
2-B	15 1/4"	12"	13 3/8"	2-B	4	28	8.50	ROTU
3-B	19 1/2"	15 3/4"	17 1/4"	3-B	5	38	15.00	ROTRE
4-B	9 1/4"	6 1/2"	7 7/8"	4-B	10	16	3.00	ROFO
6-B	12 1/4"	9 7/16"	10 3/4"	6-B	8	28	4.60	ROSIK
7-B	11 1/4"	8 3/8"	9 3/4"	1-B	8	21	3.75	ROSEV
8-B	14 1/4"	10 3/4"	12 1/2"	8-B	10	28	5.00	ROATE
9-B	15 1/4"	12"	13 3/8"	2-B	4	28	8.50	RONIN
10-B	17 1/2"	13 3/4"	15 1/2"	10-B	5	29	11.00	ROTEN
11-B	8 1/4"	5 1/2"	7"	11-B	10	14	2.75	ROLEV

HINGED CONCENTRIC LOUVERS

(Sprayed and Baked Aluminum Finish)

Hinged concentric louvers are similar and serve a similar purpose as the hinged ceiling roundels. The construction is the same except that the hinged member carries concentric louver vanes instead of the roundel. Louver vanes are stepped from the center outward giving a slightly convex contour to the assembly similar to the roundels.

The louvers serve the purpose of concealing the light source from normal viewing angles and when viewed from a distance and at relatively flat angles give the illusion of luminous glass. Louvers permit the sharply downward distribution from the Permaflexors to pass through between vanes with but slight loss. At the high angles they cut off completely and for this reason are preferred by many.

Since louvers also provide mechanical protection for the Permaflexor, wire guards are unnecessary. Under each Permaflexor listing here and before, we indicate the correct hinged concentric louver to be used therewith.

Hinged Concentric Louver Cat. No.	Frame Dia.	Number Vanes Included	Height of Vanes	Dia. Hole in Ceiling	Plaster Ring (Optional)	Standard Quantity	Weight Approx. Lbs.	Retail Price Each	CODE
1-B	11 1/4"	4	3/4"	9 3/4"	1-B	10	8	\$3.75	LUNE
2-B	15 1/4"	5	1"	13 3/8"	2-B	6	10	5.50	LUTU
3-B	19 1/2"	9	1 1/8"	17 1/4"	3-B	5	26	10.75	LUTRE
4-B	9 1/4"	3	3/4"	7 7/8"	4-B	12	11	3.00	LUFO
6-B	12 1/4"	4	1"	10 3/4"	6-B	10	18	4.25	LUSIK
7-B	11 1/4"	4	3/4"	9 3/4"	1-B	10	8	3.75	LUSEV
8-B	14 1/4"	6	3/4"	12 1/2"	8-B	10	19	4.50	LUATE
9-B	15 1/4"	5	1"	13 3/8"	2-B	6	10	5.50	LUNIN
10-B	17 1/2"	8	1 1/8"	15 1/2"	10-B	5	20	7.00	LUTEN
11-B	8 1/4"	3	3/4"	7"	11-B	10	10	2.75	LULEV

CEILING ROUNDELS (Not Hinged)

(Frames Sprayed and Baked Aluminum Finish)

Here are listed ceiling roundels which do not have a hinged member. They consist of a single frame in which the colorless stippled glass roundel is mounted. For access to the lamp and reflector it is necessary to remove the entire roundel. The Permaflexor must be supported from the appropriate flush mounting ring to which the ceiling roundel frame is attached by means of knurled head screws.

For each Permaflexor listed here and before, there is indicated the ceiling roundel (not hinged) to be used therewith.

Ceiling Roundel Cat. No.	Frame Dia.	Glass Dia.	For Use With Flush Ring No.	Standard Quantity	Weight Approx. Lbs.	Retail Price Each	CODE
21	11 7/8"	9 7/16"	54, C-201, I-201	7	21	\$2.25	TUONCLER
41	9"	6 1/2"	73, 77	12	11	1.35	FORUNCLEAR
62	10 3/8"	8 3/8"	55, C-100	10	15	2.00	SIKTU
81	14 1/4"	12"	C-300, E-500, 555	6	21	6.60	ATONECLEAR
91	19 7/8"	15 3/4"	I-1005-A	4	30	10.50	NINONCLEAR

HEAT-RESISTING GLASS ROUNDELS

Diameter	Type	Shape	Standard Quantity	Weight Approx. Lbs.	Retail Price Each	CODE
8"	Clear Stippled	Convex Convex	10 10	13 13	\$2.00 2.00	ATKL ATSTIP
9 ⁷ / ₁₆ "	Clear Stippled Dioptric	Convex Convex Pie Plate	10 10 12	18 18 24	3.00 3.00 3.00	NINKL NINSTIP NINDIOP
9 ¹ / ₂ "	Spread	Convex	10	18	3.00	NINSPRED
9 ¹³ / ₁₆ "	Stippled	Flat	15	22	4.00	NINTHIRT
10 ³ / ₈ "	Clear	Convex	10	21	4.25	TENTREATE
10 ³ / ₄ "	Clear Stippled	Convex Convex	7 7	20 20	4.50 4.50	TENTREK TENTREKST
11 ¹ / ₄ "	Clear Stippled Spread	Convex Convex Convex	7 7 7	23 23 23	5.00 5.00 5.00	LEVENKL LEVENSTIP LEVENSPPRED
12"	Clear Stippled Spread	Convex *Convex Convex	6 10 6	20 23 20	5.50 5.50 5.50	TWELKL TWELSTIP TWELSPRED
12 ¹ / ₂ "	Clear Stippled	Convex Convex	6 6	23 23	5.50 5.50	TWELFCLEAR TWELFSTIP
13"	Stippled	Convex	5	19	6.60	TERTENSTIP
13 ³ / ₄ "	Clear Stippled Spread	Convex *Convex Convex	5 5 5	21 21 21	6.60 6.60 6.60	TERTEKL TERTESTIP TERTESPRED
15 ³ / ₄ "	Stippled	*Convex	4	22	8.00	RONREGLA
16 ³ / ₄ "	Clear Stippled Spread	Convex Convex Convex	3 3 3	25 25 25	12.00 12.00 12.00	SIXTEKL SIXTESTIP SIXTESPRED
18 ³ / ₄ "	Clear Stippled Spread Dioptric	Convex Convex Convex Convex	1 1 1 1	14 14 14 14	14.00 14.00 14.00 14.00	ATENKL ATENSTIP ATENSPPRED ATENDIOP

* New Style Shallow Convex.

NON-HEAT-RESISTING GLASS ROUNDELS

4 ³ / ₁₆ "	Stippled	Convex	50	16	.50	RONFIGLA
4 ³ / ₄ "	Stippled	Pie Plate	40	13	.50	FOTREKSTIP
5 ¹ / ₂ "	Stippled	Convex	60	26	.50	EFSEVCLEAR
6 ¹ / ₂ "	Clear Stippled	Convex Convex	20 20	12 12	.75 .75	NOCOLFOCLE NOCOLFOGLA
8"	Clear Stippled	Convex Convex	10 10	13 13	1.40 1.40	COLSICLEAR COLSIGLA
8 ³ / ₈ "	Stippled Prismatic	*Convex Flat	10 10	10 14	1.40 1.40	RONDONEGLA RONPRIS
9 ⁷ / ₁₆ "	Clear Stippled	Convex *Convex	10 10	18 18	1.40 1.40	NOCOLTUCLE NOCOLTUGLA
10 ³ / ₄ "	Stippled	*Convex	10	18	1.85	TENSTIP

* New Style Shallow Convex.

SQUARE GLASS PLATES

Catalog No.	Size In Inches	Type	Standard Quantity	Weight Approx. Lbs.	Retail Price Each	CODE
*1	13 ⁵ / ₈ Square	Stippled	10	51	\$8.60	PLAITWON
5	10 ¹ / ₂ Square	Stippled	10	34	2.50	PLAITFIVE
6	8 ¹ / ₂ Square	Stippled	10	17	1.75	PLAITSIX

* Heat Resisting.



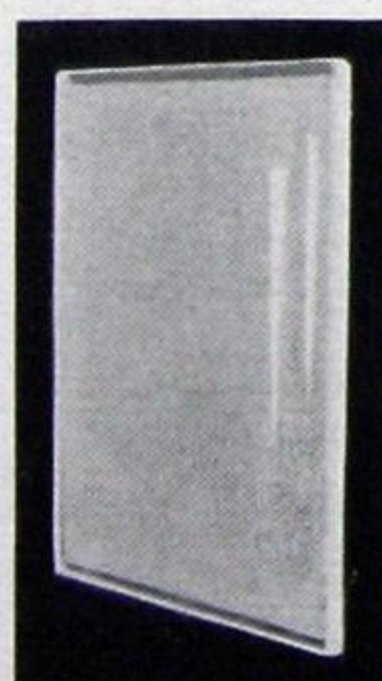
Clear



Stippled

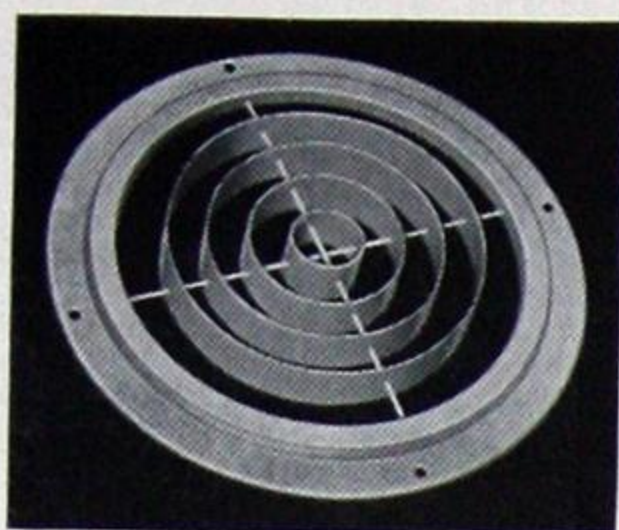


Spread



Square Glass Plate





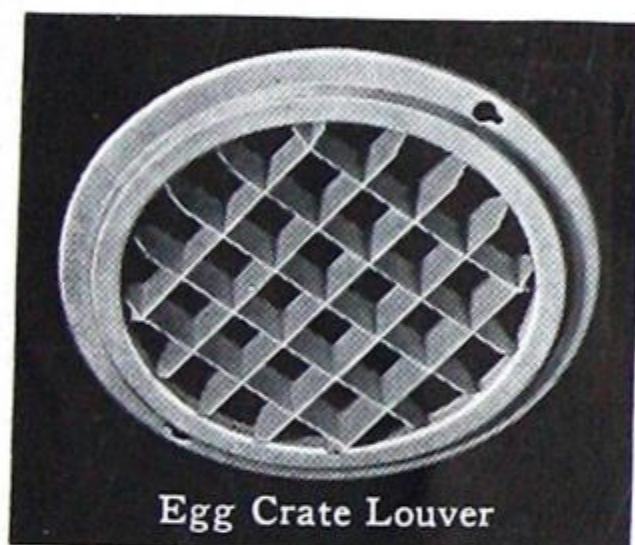
Concentric Louver



Eccentric Louver



Parallel Louver



Egg Crate Louver



Concentric Louver
No. RV-54 in closed
position.



Concentric Louver
No. RV-54 in open
position.

PERMAFLECTOR LOUVERS

(For Flush Mounting Service)
(Sprayed and Baked Aluminum Finish)

These louvers are used for concealing the light source when required, thus preventing undesirable glare at normal angles and when viewed from a distance give the illusion of luminous glass. Each louver comes equipped with four knurled-head screws for attaching to its companion flush ring as listed below. The correct louver to be used in conjunction with each Permaflexor is shown in the preceding pages.

CONCENTRIC LOUVERS

Louver Cat. No.	Frame Dia.	For Use With Flush Mtg. Ring No.	Standard Quantity	Weight Approx. Lbs.	Retail Price Each	CODE
FM-28-C	7 1/4"	28	10	6	\$2.00	FEMTUATEC
FM-54-C	11 3/4"	54, C-201, I-201	10	16	2.25	FEMFITYFOC
FM-55-C	10 1/4"	55, C-100	10	11 1/2	2.00	FEMFITYFIC
FM-77-C	9"	73, 77	10	10 1/2	2.00	FEMSESEC
FM-505-C	19 7/8"	I-1005	4	17	7.00	FEMFIOFIC
FM-555-C	14 1/4"	555	10	23	2.85	FEMFIFIFIC
FME-500-C	14 1/4"	E-500, C-300	10	22	3.15	FEMEFIHUC
FMC-500-C	15 3/4"	C-500	10	25	3.15	FEMSEFIHUC

ECCENTRIC LOUVERS

FM-77-CA	9"	73, 77	10	10 1/2	2.00	FEMSESECA
FM-88-CA	10 1/4"	55	10	11 1/2	2.25	FEMATATCA
FM-99-CA	11 3/4"	54	10	16	2.60	FEMNINICA
FM-555-CA	14 1/4"	555	10	23	2.85	FEMFIFIFICA

PARALLEL LOUVERS

FM-54	11 3/4"	54, C-201, I-201	10	16	2.25	FEMFIFOR
FM-55	10 1/4"	55, C-100	10	11 1/2	2.00	FEMFIFI
FM-77	9"	73, 77	10	10 1/2	2.00	FEMSEVSEV
FM-555	14 1/4"	555	10	23	2.85	FEMFIFIFI
FME-500	14 1/4"	E-500, C-300	10	22	4.50	FEMEFIHUN

EGG-CRATE LOUVERS

FEC-100	10 1/4"	55, C-100	10	13 1/2	3.10	FEMEGONE
FEC-200	11 3/4"	54, C-201, I-201	10	18	4.20	FEMEGTU
FEC-300	14 1/4"	E-500, C-300	10	24	4.80	FEMEGTRE

CONCENTRIC LOUVERS (Removable Concentric Center Type)

(For Flush Mounting Service)
(Sprayed and Baked Aluminum Finish)

These louvers consist of a combined louver and flush mounting ring and feature a simple quick method of removing the vanes for lamp maintenance without detaching flush ring.

Concentric Louver Cat. No.	Frame Dia.	Plaster Ring Optional	Dia. Hole in Ceiling	For Use With Permaflexor No.	Standard Quantity	Weight Approx. Lbs.	Retail Price Each	Code
RV-54	11 5/8"	54	9 3/4"	E-230, 105	10	14	\$2.67	REVO
RV-55	10 1/8"	55-A	8 3/4"	E-150, 110, I-75	10	11	2.37	REVI
RVC-100	10"	55-A	8 3/8"	C-100, C-101	10	11	2.37	REVEC
RVE-500	14 1/8"	555	12 1/4"	E-500	10	20	4.30	REVE

CONCENTRIC CENTERS (For Housed Permaflexors)

(For External Mounting Service)
(Sprayed and Baked Aluminum Finish)

These louvers consist of concentric vanes with cross wires for use with externally housed Permaflexor and are easily removable for lamp maintenance.

Concentric Centers Cat. No.	Number Vanes Included	Height of Vanes	For Use With Permaflexor No.	Standard Quantity	Weight Approx. Lbs.	Retail Price Each	CODE
RV-505-S	9	1 1/8"	I-505-S, I-1005-S	10	25	\$2.65	REVFIS
RV-500-S	6	1 1/8"	E-500-S	10	15	1.45	REVFUN
RV-230-S	5	1 1/8"	E-230-S	10	9	1.15	REVTUS

PERMAFLECTOR LOUVERS

(For External Mounting Service)
(Sprayed and Baked Aluminum Finish)

The EM style louvers are used for concealing reflecting surfaces and lamps of exposed Perma-flector equipment. They attach by means of coiled springs similar to colorlites. Under each Perma-flector here and before listed we indicate which EM louvers may be used therewith.

CONCENTRIC LOUVERS

Louver Cat. No.	Frame Dia.	Standard Quantity	Weight Approx. Lbs.	Retail Price Each	CODE
EM-54-C	10 $\frac{1}{4}$ "	10	15	\$2.25	EMFITYFOC
EM-55-C	8 $\frac{3}{4}$ "	10	11 $\frac{1}{2}$	2.00	EMFITYFIC
EM-77-C	7 $\frac{1}{4}$ "	10	10 $\frac{1}{2}$	2.30	EMSESEC
EM-555-C	13 $\frac{3}{4}$ "	10	23	2.85	EMFIFIFIC
EME-500-C	12 $\frac{1}{8}$ "	10	22	2.85	EMEFIHUC

EGCENTRIC LOUVERS

EM-77-CA	7 $\frac{1}{4}$ "	10	10 $\frac{1}{2}$	2.30	EMSESECA
EM-88-CA	8 $\frac{3}{4}$ "	10	11 $\frac{1}{2}$	2.30	EMATATCA
EM-99-CA	10 $\frac{1}{4}$ "	10	15	2.60	EMNINICA
EM-555-CA	13 $\frac{3}{4}$ "	10	23	2.85	EMFIFIFICA

PARALLEL LOUVERS

EM-54	10 $\frac{1}{4}$ "	10	15	2.25	EMFIFOR
EM-55	8 $\frac{3}{4}$ "	10	11 $\frac{1}{2}$	2.00	EMFIFI
EM-77	7 $\frac{1}{4}$ "	10	10 $\frac{1}{2}$	2.30	EMSEVSEV
EM-555	13 $\frac{3}{4}$ "	10	23	2.85	EMFIFIFI
EME-500	12 $\frac{1}{8}$ "	10	22	2.85	EMEFIHUN

PERMAFLECTOR WIRE GUARDS

(Sprayed and Baked Aluminum Finish)

Here are the wire guards for use with hinged ceiling roundels and ceiling roundels (not hinged). They clamp firmly to hinged member of hinged ceiling roundel and swing open with the roundel when the units are open. Under each Perma-flector and hinged ceiling roundel here and before listed, the correct wire guard is indicated.

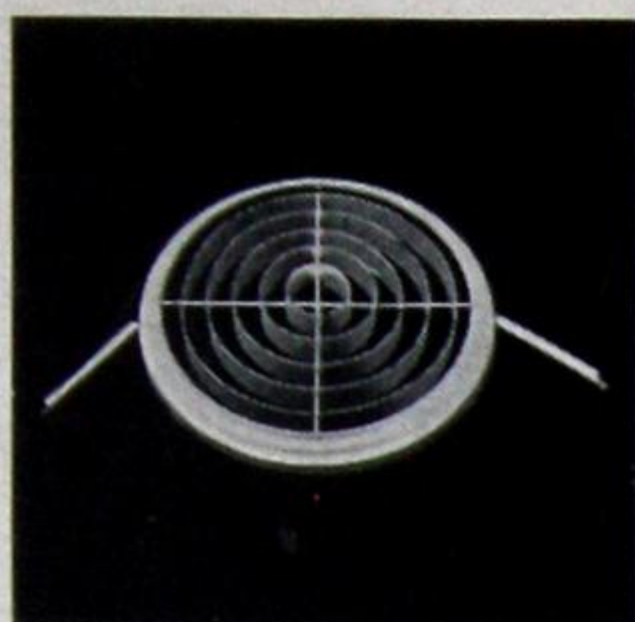
Wire Guard Cat. No.	Inside Dia.	Standard Quantity	Weight Approx. Lbs.	Retail Price Each	CODE
WG-1	8 $\frac{1}{2}$ "	10	5	\$1.50	GARON
WG-2	12 $\frac{1}{8}$ "	10	7	1.75	GARTU
WG-3	15 $\frac{7}{8}$ "	5	8	2.00	GARRE
WG-4	6 $\frac{5}{8}$ "	10	4	1.40	GARFO
WG-6	9 $\frac{9}{16}$ "	10	5	1.60	GARSK
WG-8	10 $\frac{7}{8}$ "	10	6	1.60	GARAT
WG-10	13 $\frac{7}{8}$ "	10	10	1.75	GARTEN

HINGED WIRE GUARDS

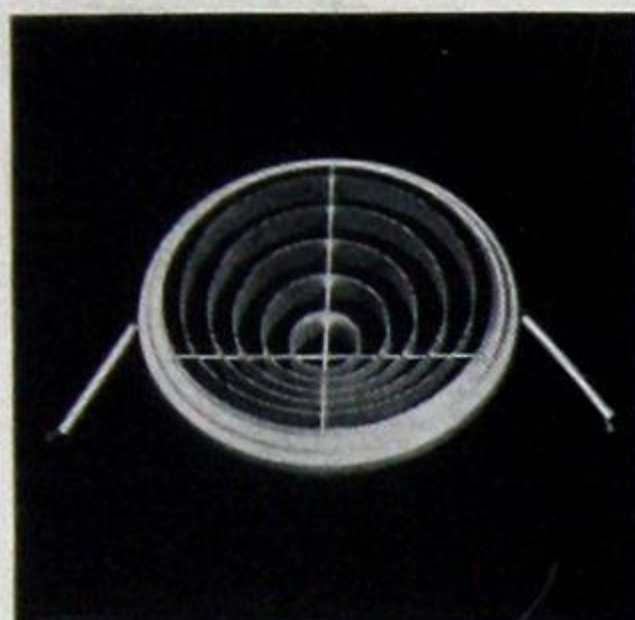
(For Use With External Housed Permaflectors)
(Sprayed and Baked Aluminum Finish)

Here are listed hinged wire guards for use with externally mounted metal enclosed Perma-flector units Series No's. E-230-S, E-500-S, I-505-S, I-1005-S. They clamp over the bottom bead of the housing and by the release of a catch swing free and give access to the lamps.

Wire Guard Cat. No.	Inside Dia.	Standard Quantity	Weight Approx. Lbs.	Retail Price Each	CODE
WG-31	9 $\frac{3}{4}$ "	10	5	\$1.80	GARION
WG-32	12 $\frac{1}{4}$ "	10	7	2.00	GARITU
WG-33	16 $\frac{3}{8}$ "	5	9	2.25	GARITRE



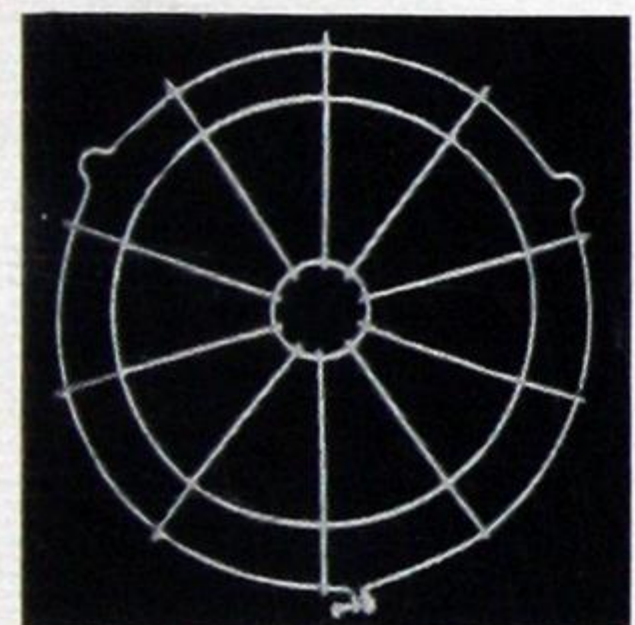
Concentric Louver



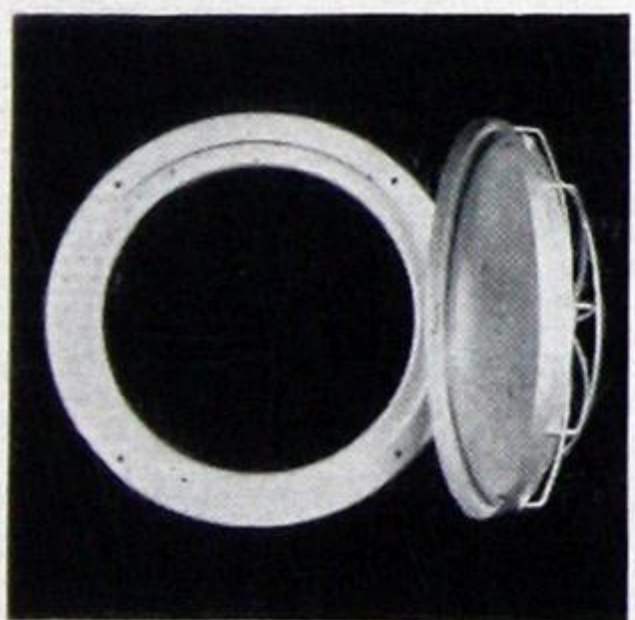
Eccentric Louver



Parallel Louver



Wire Guard



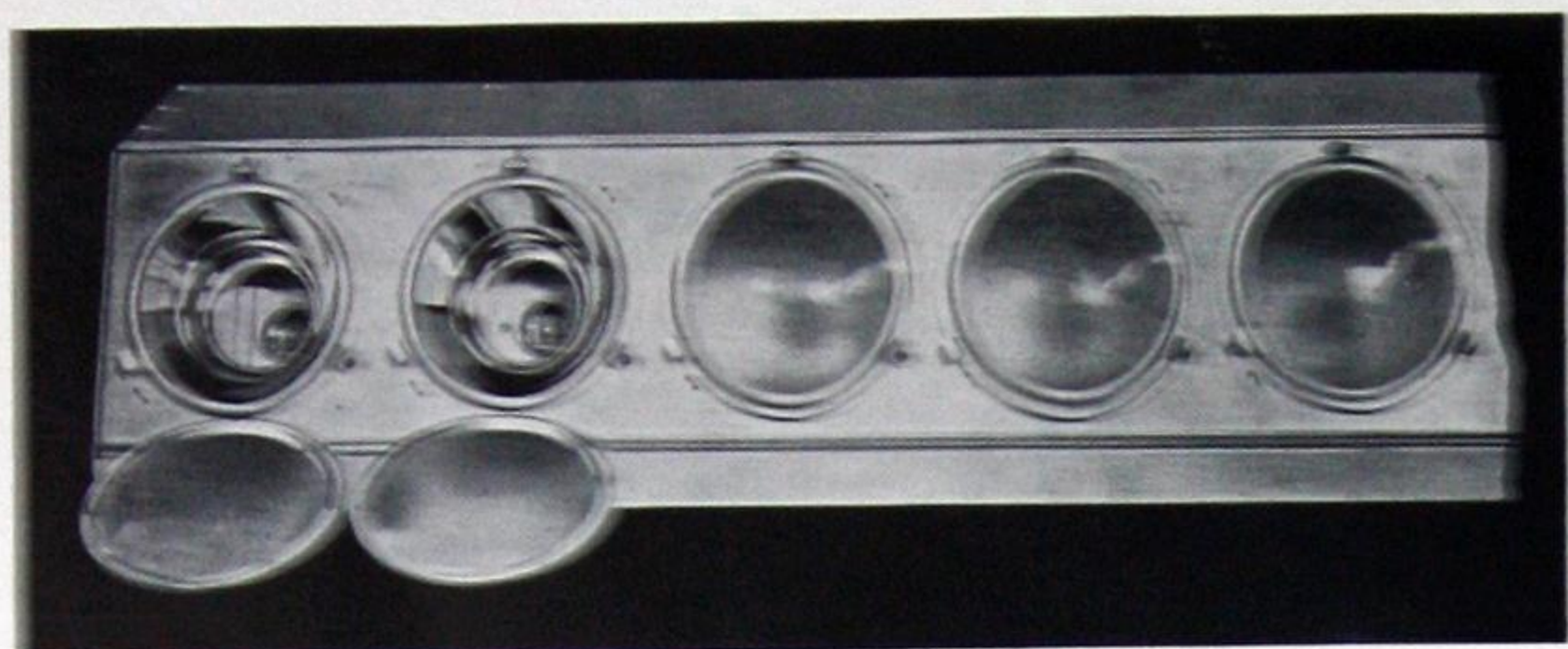
Wire Guard Used
With Hinged Ceiling
Roundel
Open Position



Hinged Wire Guard
as Used With
Housed Unit



PERMAFLECTOR THEATRE FOOTLIGHTS



FOOTLIGHT NO. 5-A

Pittsburgh Footlight No. 5-A is completely enclosed, self-contained, dust-tight. The convex glass roundels are easily removed to renew lamps. Front plate containing roundels is hinged in sections to get at the wiring.

When specifying No. 5-A Pittsburgh Footlight, architects should detail as indicated, thus requiring the general contractor to build the stage so that the Pittsburgh Footlight will accurately fit into place.

Sold complete with Permaflectors No. C-60 spaced 6 inches on centers and one F-7 Color-Lite for each outlet. (Not Wired)

Color-Lite—No. F-7 Red, Blue and uncolored stippled in equally divided quantities furnished as standard colors. Also available in Green, Amber or Moonlight when specified.

Finish: Sprayed and baked aluminum.

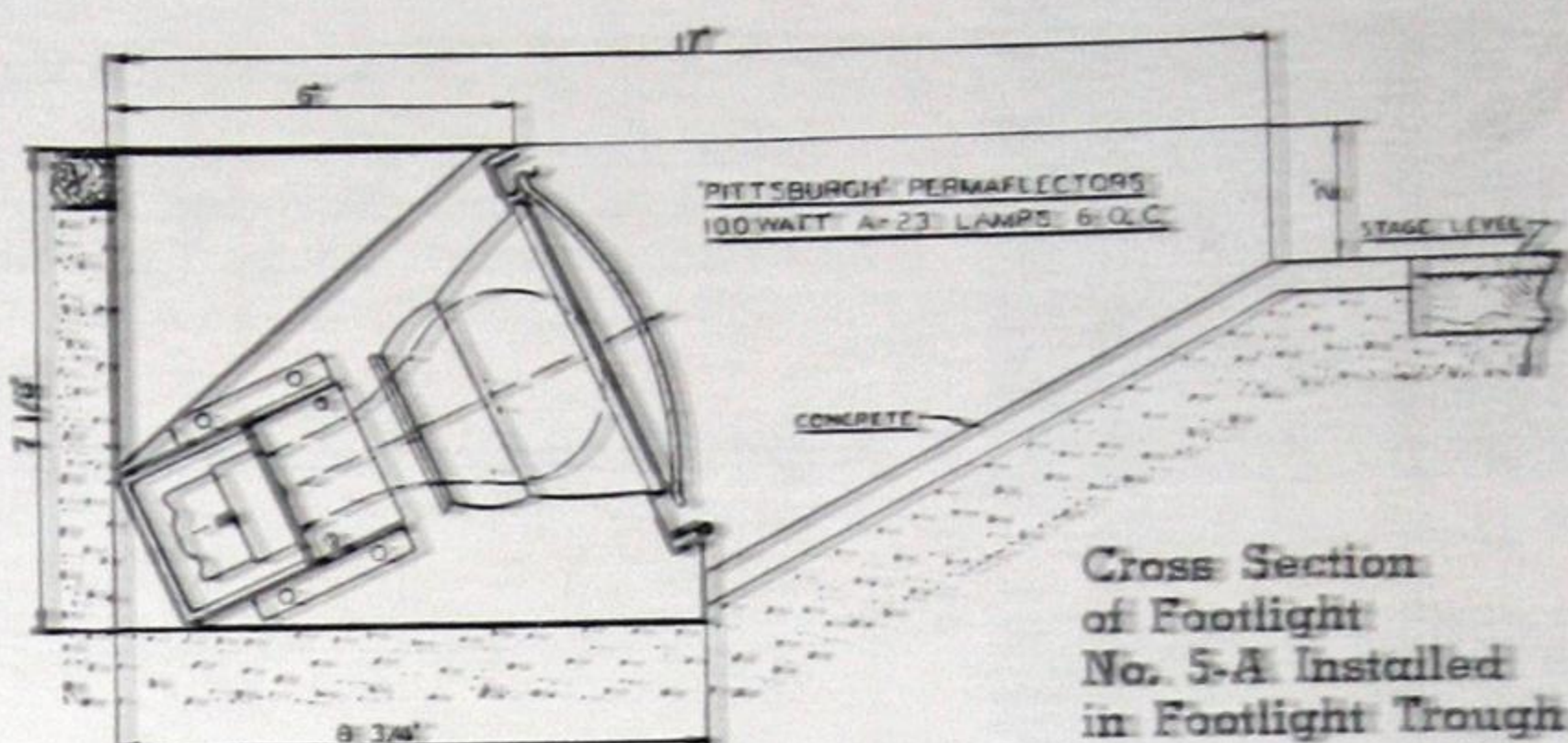
Lamp Size—Use 100 watt A-23.

Standard Quantity—One 10 ft. length **Weight**, Approx. 88 lbs.

Note: As many 10' 0" lengths are bolted together as may be required. When total required length is not evenly divisible by 10' 0", one section is made of special length.

Retail Price—per foot (Not Wired).....\$12.00

Code: Footlight No. 5-A Complete (Not Wired).....FUTOFIVAYE
Permaflector No. C-60.....SEESIXTY



FOOTLIGHT NO. 5-A

(For Curved Trough)

Although Footlight No. 5-A is a straight line footlight, it can be built for installation in curved troughs. For this service it is subdivided into a number of short lengths, each such length cut on a mitre and the individual lengths fastened together.

This footlight is available on special order only.

To build a footlight for this service, we need to know the length of the arc of the trough and the radius of curvature to the outside perimeter. The footlight is subdivided in short enough sections so that each section comes rather close to the arc of the circle. Therefore, architect or stage builder must provide additional width for seating the footlight in the curved trough.

While Footlight No. 5-A is shipped not wired and can be conveniently wired on the job, Footlight No. 5-A when built for use in curved trough must be wired at the factory. It would be very complicated and difficult to wire on the job.

Color-Lite—No. F-7 Red, Blue and uncolored stippled in equally divided quantities furnished as standard colors. Also available in Green, Amber or Moonlight when specified.

Finish: Sprayed and baked aluminum.

Lamp Size—Use 100 watt A-23.

Retail Price—Per foot wired for 3-8 circuits.....\$17.50

PERMAFLECTOR PORTABLE FOOTLIGHTS

Portable footlight designed for show window lighting service, but also useful for amateur stage productions and other displays.

Fabricated of 20 gauge sheet steel. Not wired.

Color-Lite No. 12-A may be fitted on Permaflectors when desired. Color-Lites available with red, amber, green, blue or uncolored stippled roundels.

Finish: Sprayed and baked aluminum.

PORTABLE FOOTLIGHT NO. 12

Standard Length 10 Feet, with 15 Permaflectors No. P-76, 8 inches on centers.

Lamp Size—Use 100 watt A-23.

Standard Quantity—1 Length. **Weight**, Approx. 60 lbs.

Sold in Standard Lengths of 10 feet, less Color-Lites (Not Wired). Also sold in special lengths to order.

Retail Price, Each Length.....\$90.00

Code: Standard Length.....FUTONTU

PORTABLE FOOTLIGHT NO. 13

Standard Length 10 Feet, with 10 Permaflectors No. P-76, 12 inches on centers.

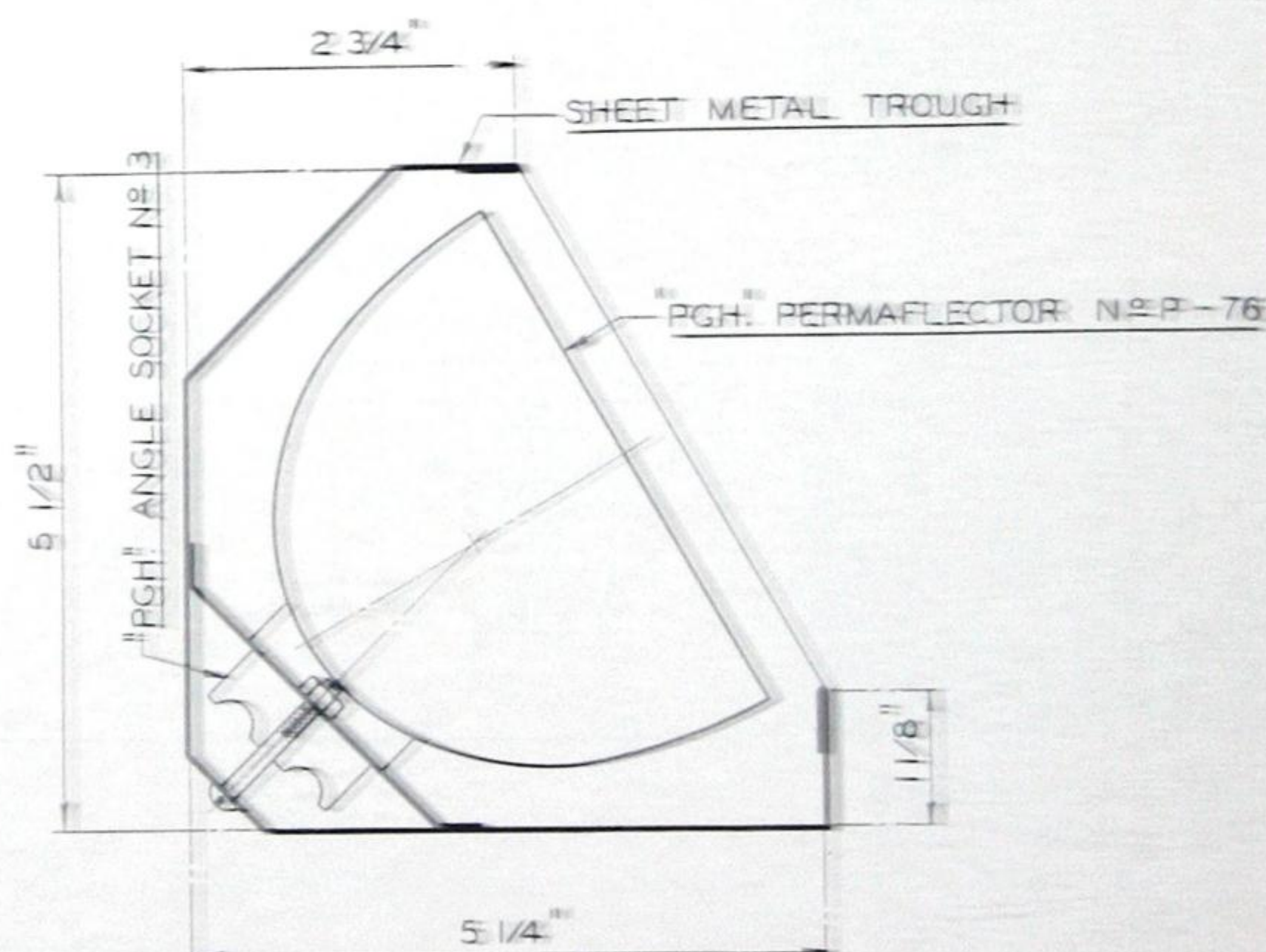
Lamp Size—Use 100 watt A-23.

Standard Quantity—1 Length. **Weight**, Approx. 58 lbs.

Sold in Standard Lengths of 10 feet, less Color-Lites (Not Wired). Also sold in special lengths to order.

Retail Price, Each Length.....\$70.00

Code: Standard Length.....FUTONTRE



Cross Section of Footlight No. 12 and No. 13

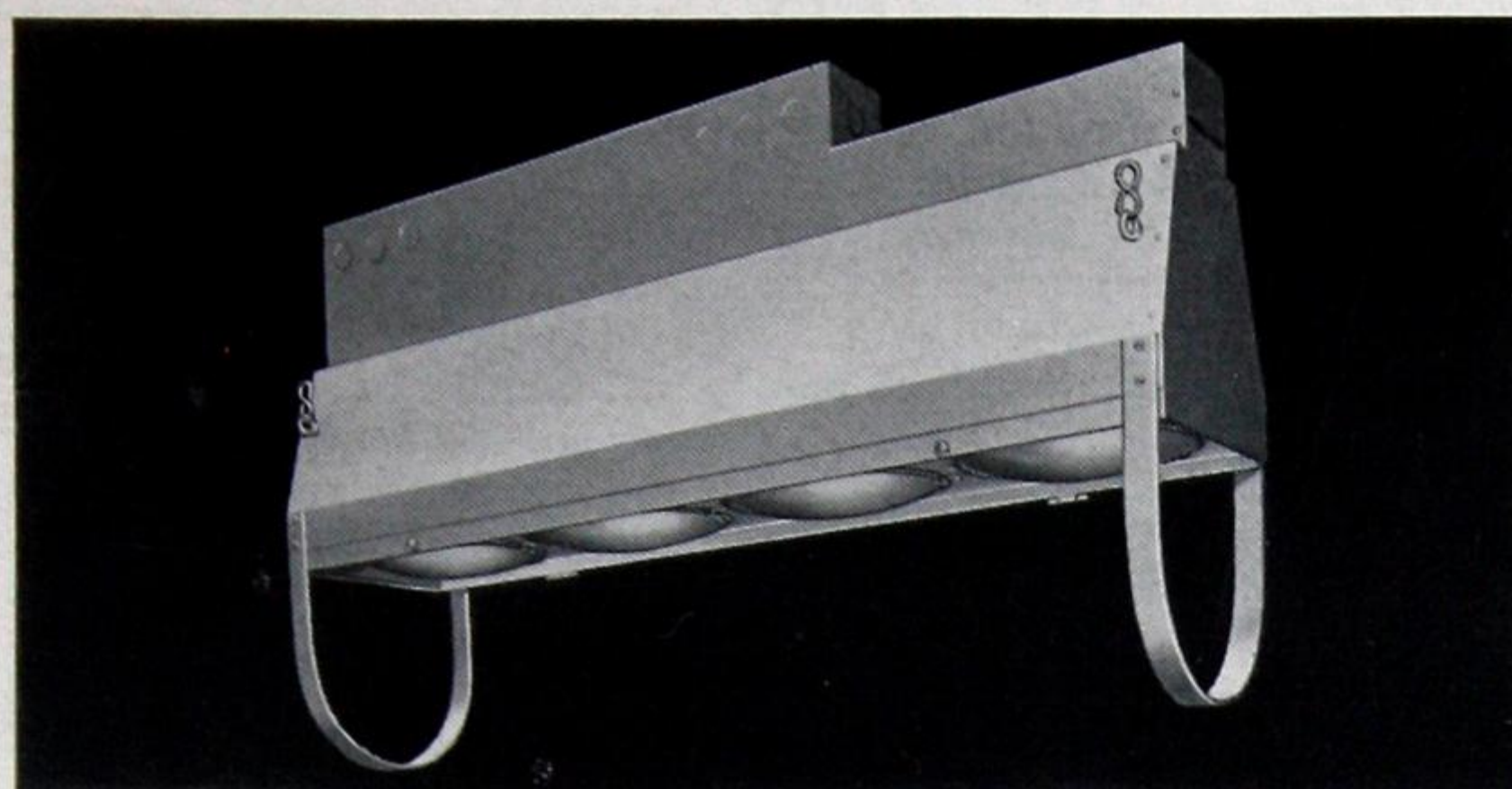
PERMAFLECTORS FOR THEATRE LIGHTING

In the theatre, lighting plays a dramatic part in joining with architectural form to create the desired atmosphere. Here, the scheme of the structure in general should reflect colorfulness, joy and imaginative fancy. To create these moods it is necessary to bring into play many different types of Permaflector equipment such as cove reflectors, floodlights, recessed units and fixtures. Special lighting effects with this equipment requires individual consideration on each job at the time of design.



PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA

PERMAFLECTOR THEATRE BORDER LIGHTS



BORDER LIGHT NO. 6

A completely enclosed, self-contained unit, built of 20 gauge galvanized iron, aluminum finish. Permafectors No. C-101 set in metal bottom plate on 9" centers. Glass Color-Lites No. F-2 set in hinged metal plate for easy access to lamps.

Made in standard lengths of 9 feet with 12 outlets 9" on centers. Strap steel guards 36" on centers. Wiring box installed at center or either end as specified. Terminal connection block furnished in wiring box for convenience of installation and maintenance.

Furnished complete as shown, **unwired**, but equipped with chain for attaching to pipe batten. Chains spaced 36" on centers.

We do not furnish pipe batten, strain insulator, flexible border light cable, lamps or rigging of any kind.

Color-Lite—No. F-2 Red, Blue and uncolored stippled in equally divided quantities furnished as standard colors.

Also available in Green, Amber or Moonlight when specified.

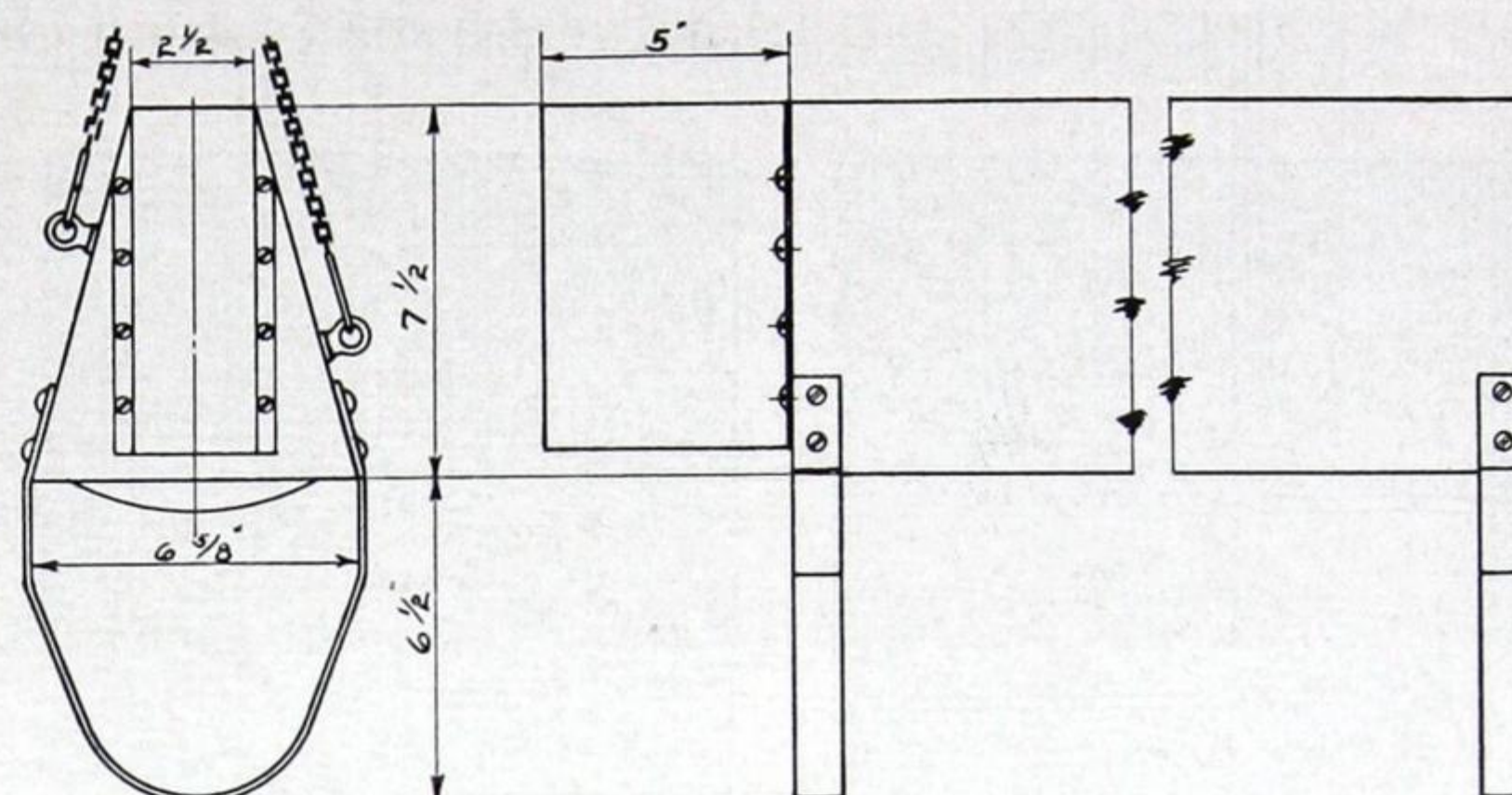
Lamp Size—Use 200 watt PS-30.

Standard Quantity—One 9 ft. length **Weight**, Approx. 150 lbs.

Note: As many standard 9' lengths are bolted together as may be required. When total length is not evenly divisible by 9', one section is made special to required dimension.

Retail Price, per foot (not wired).....\$18.00

Code: Border Light No. 6 Complete (not wired).....**BORLISIX**
Permafecter only No. C-101-GO.....**SEHUNDERUN**



BORDER LIGHT NO. 7

A completely enclosed, self-contained unit, built of 20 gauge galvanized iron, Aluminum external finish. Permafectors No. C-60 snugly set in hinged bottom plate. Glass Color-Lites No. F-7 snap into clips which are tightly compressed by a hinged keeper ring.

Made in standard lengths of 7'-6" with 15 outlets spaced 6" on centers. Wiring box installed at center or either end, as specified. Terminal connection block furnished in wiring box for convenience of installation and maintenance.

Furnished complete as shown, unwired, but equipped with chain for attaching to pipe batten. Chains spaced 36" on centers.

We do not furnish pipe batten, strain insulator, flexible border light cable, lamps or rigging of any kind.

Color-Lites—No. F-7 Red, Blue and uncolored stippled in equally divided quantities furnished as standard colors.

Also available in Green, Amber or Moonlight when specified.

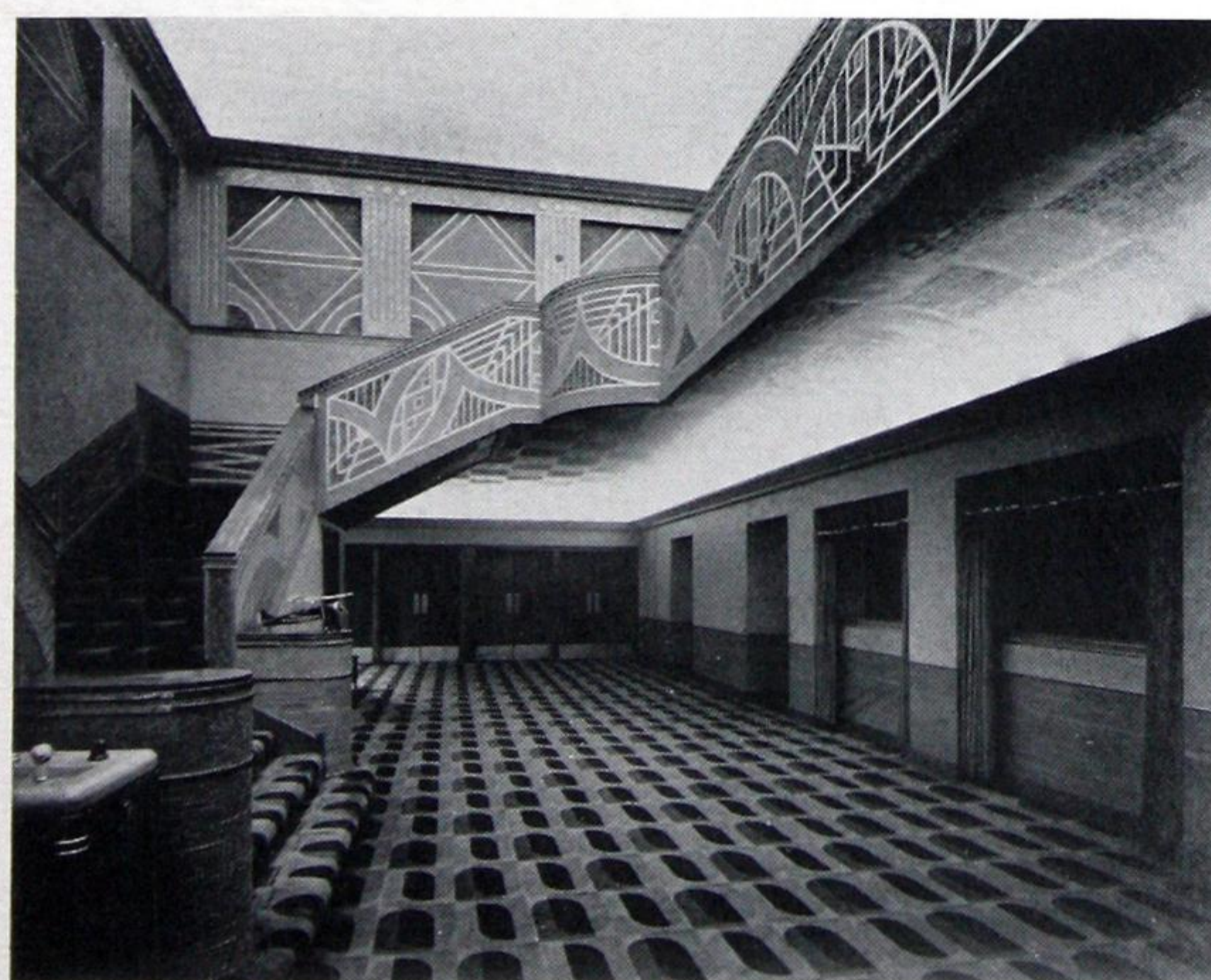
Lamp Size—Use 100 watt A-23.

Standard Quantity—One 7' 6" length **Weight**, Approx. 120 lbs.

Note: As many standard 7'-6" lengths are bolted together as may be required. When total length is not evenly divisible by 7'-6", one section is made special to required dimension.

Retail Price, per foot (not wired).....\$14.00

Code: Border Light No. 7 complete (not wired).....**BORLISEVE**
Permafecter only, No. C-60.....**SEESIXTY**



Architect—George Cunningham
Court Theatre, Wheeling, W. Va.
Permafecter Cove Lighting, Main Lobby



Court Theatre, Wheeling, W. Va.
Auditorium Lighted by concealed Permafectors and Luminaires

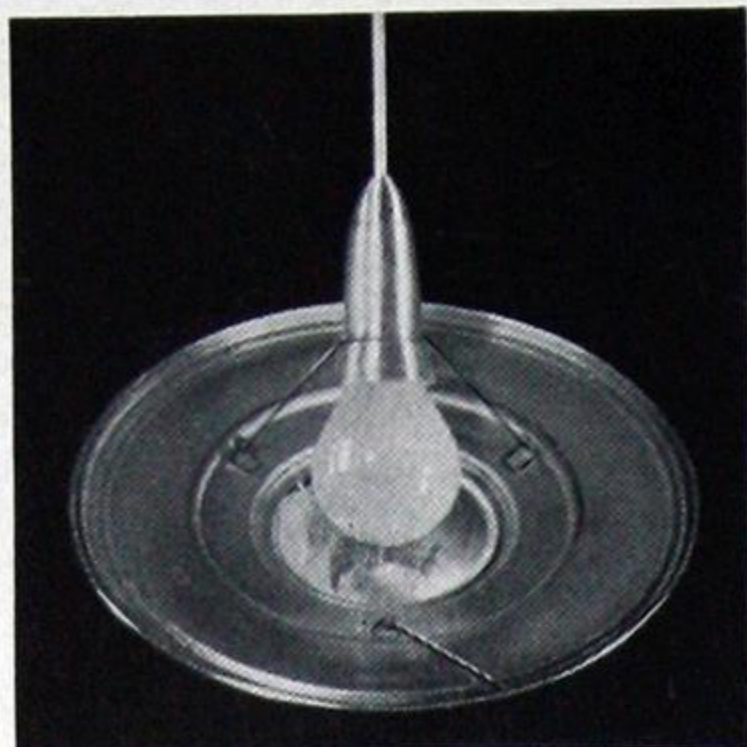


PERMAFLECTOR LUMINAIRES

THE PERMAFLECTOR CONTROLS THE LIGHT



The nucleus of Permalector Luminaires—a Permalector



Permalector enclosed in luminaire bowl

The primary function of any lighting luminaire is to provide efficient control and distribution of the light flux from the lamp. The character of the metal bowl and hanger is of secondary importance. They are used merely to suspend the lamp into proper position and perform as an attractive enclosure for the Permalector. This is the basic idea inherent in every Permalector Luminaire regardless of its design. Actually, the Permalector is the nucleus of the unit and could efficiently control and distribute the light independently of the enclosing bowl. Consequently, users who buy Permalector Luminaires, whether they be high priced or low priced, always obtain efficient light control. Differences in prices of Permalector Luminaires are entirely due to variances in the design and finish of the metal enclosures and hangers.

Any method which places reliance on the enclosing bowl for performing the reflection and distribution of the light flux from the lamp will give results which vary according to the shape of the bowl and the material from which it is made.

The Permalector method is accurate and consistently efficient.

TYPES AND APPLICATION

Permalector Luminaires may be classified as four distinct types:

1. Totally indirect
2. Indirect with illuminated bowl
3. Indirect with minor direct lighting component
4. Direct with illuminated bowl

Each classification includes a number of designs reflecting various styles of modern decorative design.

Well balanced proportions, simplicity, graceful flowing lines and rich finishes make Permalector Luminaires beautifully modern. They harmonize exceedingly well with contemporary interiors and furnishings.

Permalector Luminaires may be used wherever efficient indirect lighting of the finest quality is desired. They are excellent for schools, offices, hospitals, retail stores, hotels, restaurants and many other commercial or public institutions.

DISCRIPTION OF FINISHES

The finishes which are skillfully applied to Permalector Luminaires are durable and attractive. The standard finish for each unit is listed in the specifications accompanying each luminaire.

Satin Aluminum . . . an etched, brushed and lacquered finish . . . a satin-like, diffuse surface.

Polished Aluminum . . . buffed to a high polish and lacquered.

Scratched Aluminum . . . emiered, brushed and lacquered . . . a grained finish of gleaming richness.

Light Ivory . . . a baked-on, heat resisting enamel of light tone . . . blends with ivory or off-white ceilings and walls.

In addition to the above standard finishes, each luminaire, wall urn and indirect lamp (with the exception of Permalector Luminaire No. B-53) is available on **special order only** finished in a strikingly beautiful **Golden Bronze** at 10% additional cost.

INDIRECT CALCULATION

For the last decade or more indirect illumination has been widely accepted and extensively used as the finest quality of light available for eye comfort and conservation of eyesight. Therefore, most electrical contractors, lighting service specialists and engineers understand and are experienced in the design of such installations. The lamp manufacturing companies for years have published illumination design data from which the installation can be designed and we recommend that it be used.

The more limited rule of thumb data which we and other lighting equipment manufacturers have in the past supplied in our catalogs is insufficient as such data can only cover average conditions. When the actual conditions represent extremes such data gives misleading high or low results.

Complete indirect lighting layouts are available to our customers as a part of the Permalector Engineering Service as shown on Page Ten. Consult your local Permalector Representative or write direct to our engineering headquarters in Pittsburgh.



Electrical Contractor—W. J. Zuck, Pittsburgh, Pa.
Architect—H. H. Lefkowitz, Pittsburgh, Pa.
N. Rice Drug Co., Pittsburgh, Pa.



Electrical Contractor—Sayre Electric Co.
Architect—Ackley, Bradley and Day, Pittsburgh, Pa.
Wellsville High School, Wellsville, Ohio.



PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA

PERMAFLECTOR LUMINAIRES

ADDITIONAL EQUIPMENT FOR USE WITH PERMAFLECTOR LUMINAIRES

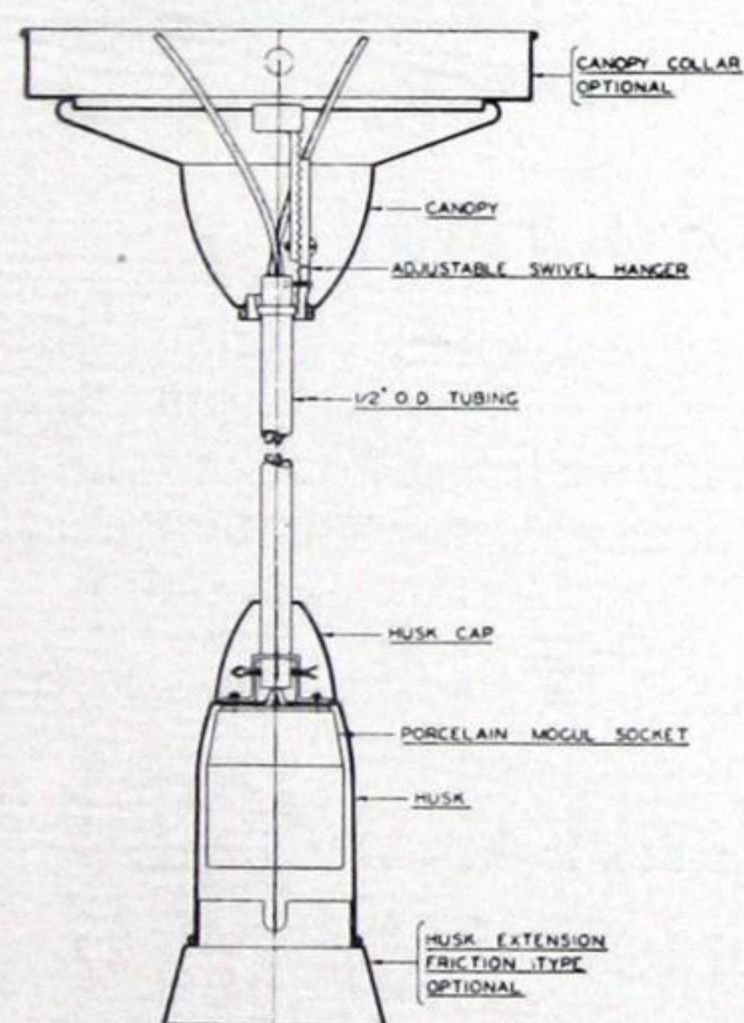
HUSK EXTENSIONS

In a small room it is impossible to see the neck of a lamp where it is exposed in the space between the bottom of the husk and the top of the bowl. As a matter of fact, usually the husk itself is concealed. Therefore, there is no purpose in using a husk extension. In small rooms, we need all the efficiency possible and there isn't any purpose in wasting light in a husk extension.

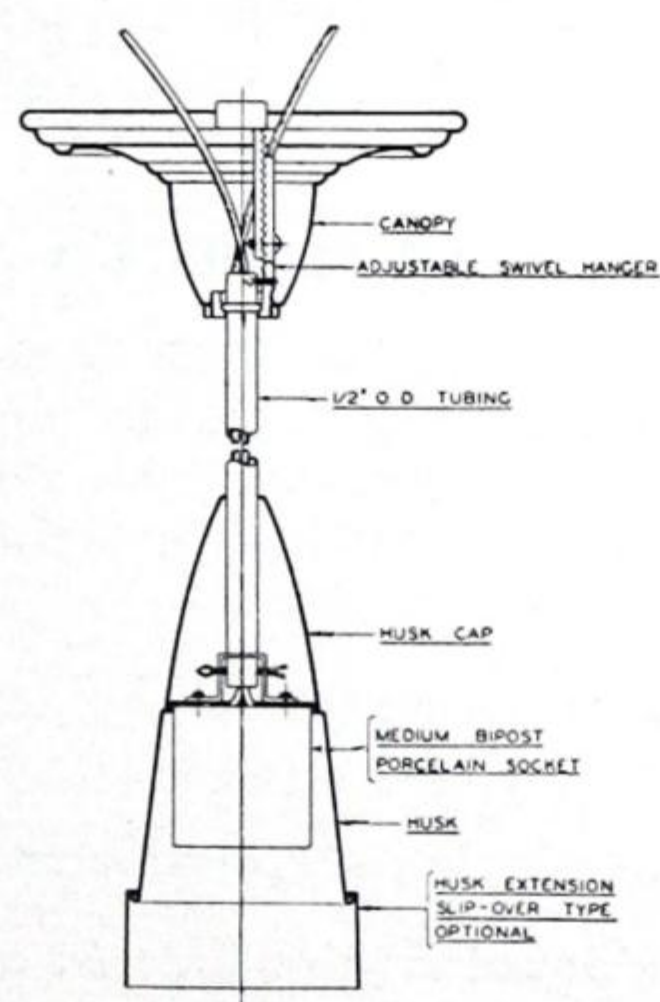
On the other hand, in very large rooms the lamp neck comes in the range of vision if any portion thereof is exposed. For such installations we recommend the use of the husk extension. While some light is lost in such husk extensions, the coefficient of utilization of the entire installation for large rooms is considerably higher and hence we can afford to lose some light in the extension for the sake of a better appearing job.

The husk extension is not standard equipment with the luminaires shown herein. Some luminaires have full length one-piece husks. Others have partial length husks and with these the husk extension may be used. Husk Extension No. HE-1, illustrated in cross-section Sketch (A), snaps in position and it is not necessary to dismantle the fixture in any way in order to add the husk extension. Husk Extension No. HE-2, illustrated in cross-section Sketch (B), should be attached before the luminaire is installed to avoid dismantling the unit after installation. The proper husk extension is listed in the specifications accompanying each luminaire.

Catalog No.	Standard Quantity	Approximate Weight-lbs.	Retail Price Each	Code
HE-1	10	1	\$0.50	HEUN
HE-2	10	2	0.50	HETU



Permaflexor Stem Hanger with Canopy Collar No. CC-1 and Husk Extension No. HE-1.



Permaflexor Stem Hanger with Husk Extension No. HE-2 for 750-1000 watt Bipost Lamps.

STEM HANGERS

All Permaflexor Luminaire Stem Hangers are of the swivel type which permits the unit to hang straight even though the outlet box, stud or ceiling may not be level. The accompanying cross-section sketches show the construction of Permaflexor Stem Hangers and how easily and quickly they are wired and assembled.

WIRING AND ASSEMBLING

All Permaflexor Luminaires are shipped NOT ASSEMBLED and NOT WIRED. The correct length and proper gauge special insulated wire is furnished. Any contractor familiar with luminaire installation can quickly and easily assemble, wire and install Permaflexor Luminaires.

CANOPY COLLARS FOR CANOPY SWITCHES

Pittsburgh Reflector Company does not furnish canopy switches, and most of the canopies supplied are not equipped to accommodate a canopy switch. Where canopy switches are required additional canopy collars may be used. The collar is of larger diameter and a little more than one inch deep. The standard canopies seat themselves on the canopy collar as shown in the illustration. The canopy collar is equipped with $\frac{1}{8}$ " diameter knockout for insertion of canopy switch. We recommend the use of ten ampere size Levolver switch which is more rugged and is very desirable for use with 500 watt fixtures or less and is absolutely necessary for 750 and 1000 watt fixtures.

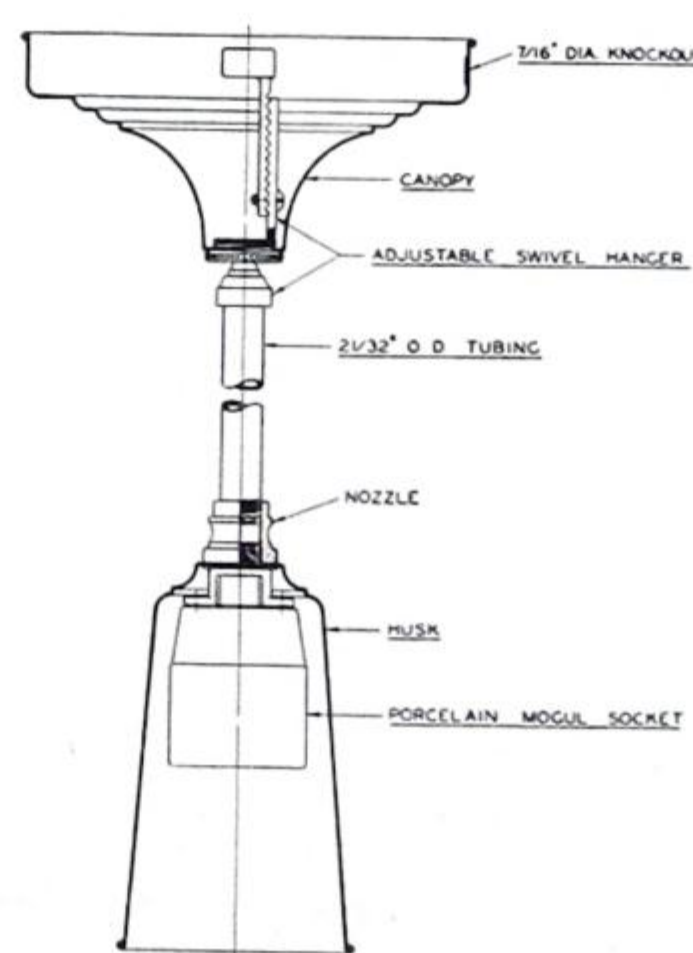
Canopy Collar No. CC-1 is illustrated in cross-section sketch (A).

The proper canopy collar is listed in the specifications accompanying each luminaire.

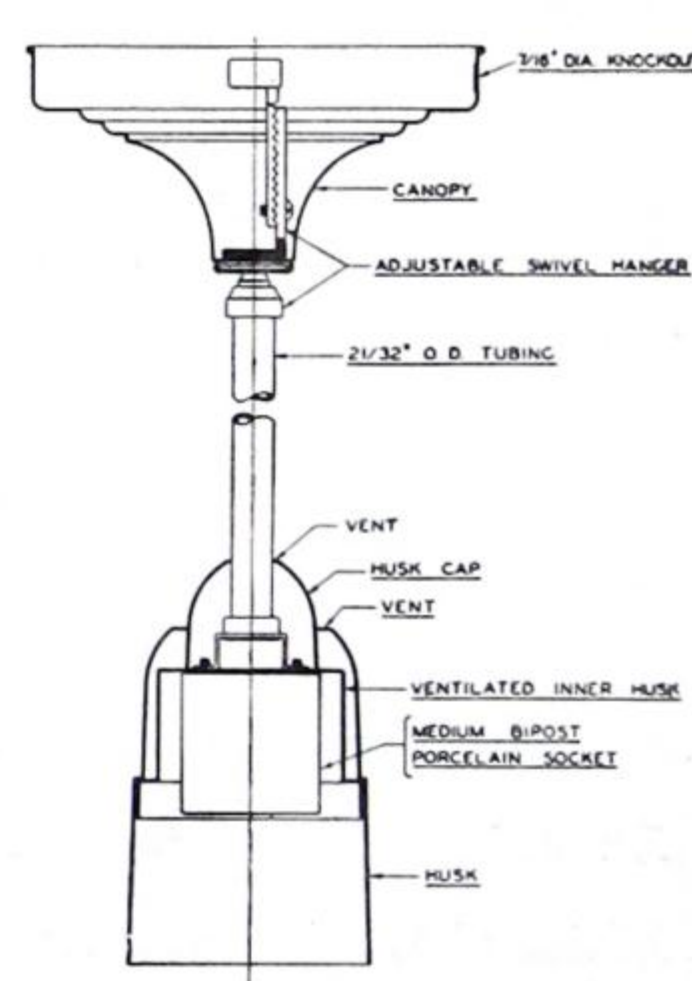
Catalog No.	Standard Quantity	Approximate Weight-lbs.	Retail Price Each	Code
CC-1	10	4	\$0.75	SEUN
CC-2	10	4	0.75	SETU

COLOR-LITES

Certain Permaflexor luminaires which have luminous upper bowls may be beautifully tinted in colors of red, amber, light blue or dark blue by the installation of colored glass roundels, a patented construction. The color-lites are seated in the bottom of the Permaflexor and color the downward light which is reflected upwardly on the outer surface of the upper bowl, giving it the appearance of colored luminous glass. The color-lites available for each unit are listed in the specifications accompanying the luminaire. Prices of these color-lites may be found on Page 79.



Permaflexor Stem Hanger with long husk construction and large canopy. Requires no canopy collar or husk extension.



Permaflexor Stem Hanger with large ventilated husk for 750-1000 watt Bipost Lamps.

MAINTENANCE

Permaflexors enclosed in Permaflexor Luminaires may be restored to their initial efficiency, regardless of their length of service, by merely wiping the reflecting surface with an ordinary damp cloth. No rubbing or special cleaning or polishing agents are required. It is not necessary to dismantle the unit.

TEN YEAR GUARANTEE

The Permaflexor Ten Year Guarantee as listed completely on Page Ten applies to all Permaflexors enclosed in Permaflexor Luminaires. This fact assures every user of Permaflexor Luminaires the greatest possible savings in maintenance, long-life and efficient performance.



PERMAFLECTOR INDIRECT LUMINAIRES



LUMINAIRE NO. B-50

("B" Type, Totally Indirect)

Finished in Scratched Aluminum with Polished Edges
Available only with Stem Hanger

INDIRECT ILLUMINATION

This luminaire design has the beauty of simplicity of lines and contour. The glistening scratched aluminum finish takes on the colors of its surroundings by reflection of its surface. It is a design that fits in with most interiors very well.

This luminaire is spun of heavy gage first quality sheet aluminum and makes a very rich appearance.

An efficient Permalector provides the light control.

Additional Equipment: At additional cost.

Husk Extension—No. HE-1.

Canopy Collar—No. CC-1.



LUMINAIRE NO. B-53

("B" Type, Totally Indirect)

Light Ivory Finish with Polished Aluminum Husk
Available only with Stem Hanger

INDIRECT ILLUMINATION

Luminaire No. B-53 is designed to efficiently provide well diffused, totally indirect illumination. Canopy and bowl are spun from 24-gage sheet steel. Aluminum is used for the husk. Attractively finished in light ivory enamel with polished aluminum husk.

An excellent totally indirect lighting luminaire for use in hospitals and schools.

An efficient Permalector provides the light control.

Additional Equipment: At additional cost.

Husk Extension—No. HE-1.

Canopy Collar—No. CC-2.

We recommend the use of Inside Frosted Lamps

Catalog No.	Lamp Size			Dia. of Bowl	Std. Suspension		Equipped with Permalector	Standard Quantity	Weight Approx. Lbs.	*Retail Price Each	Code
	Watts	Type	Base		Top of Bowl to Ceiling	Overall					
B-50	300 500	PS-35 PS-40	Mogul	20"	30"	37 $\frac{1}{4}$ "	B-509	1	7 $\frac{1}{2}$	\$13.50	BEFIO
B-53	300 500	PS-35 PS-40	Mogul	16"	30"	37 $\frac{1}{8}$ "	B-509	1	8	10.10	BEFITRE

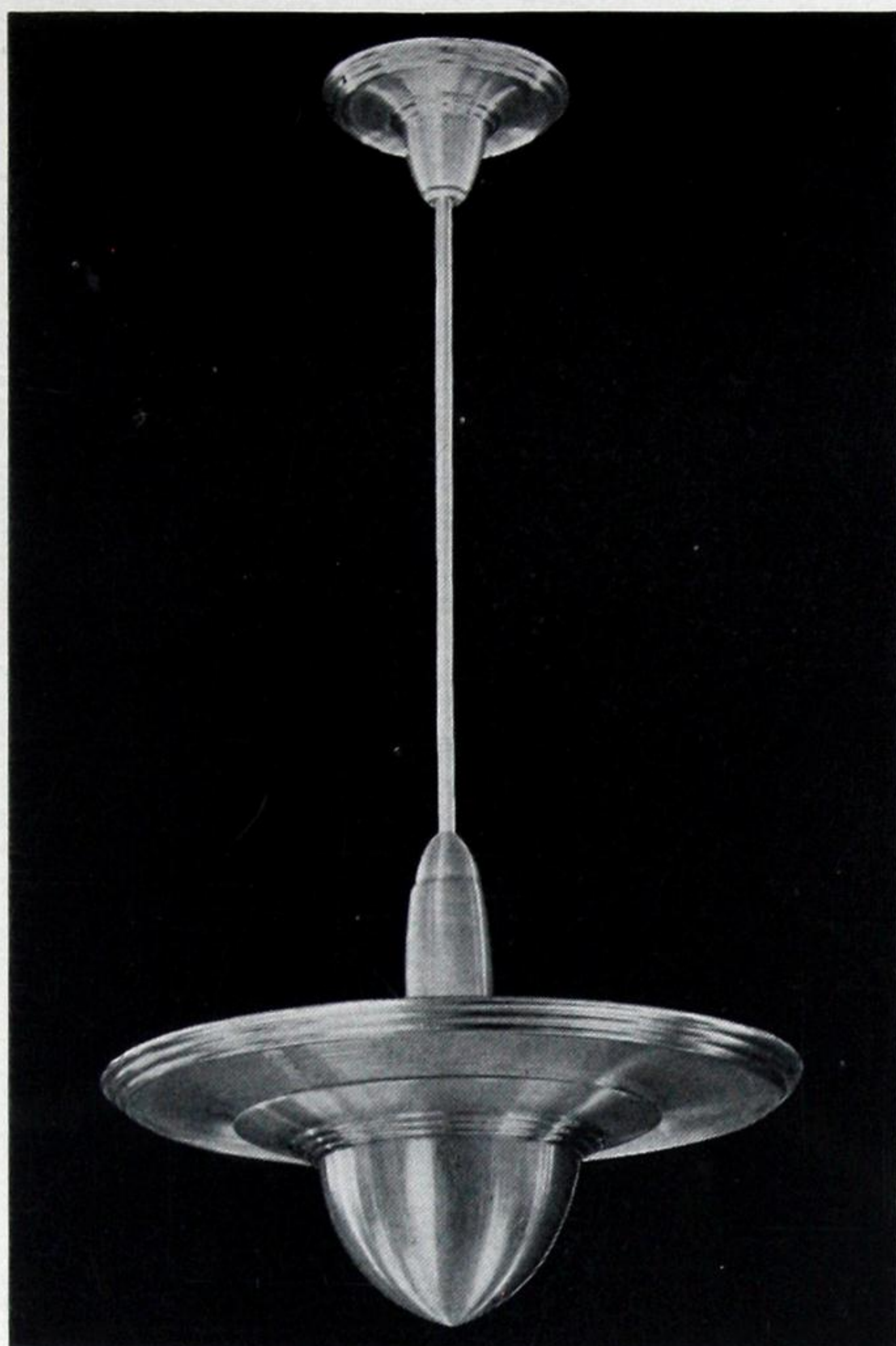
*For shorter than standard suspension add \$0.30 cutting charge.

*For longer than standard suspension add \$0.05 per additional inch of suspension plus \$0.30 cutting charge.



PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA

PERMAFLECTOR INDIRECT LUMINAIRES



LUMINAIRE NO. B-591

("B" Type, Totally Indirect)

Finished in Scratched Aluminum with Polished Edges
Available only with Stem Hanger

INDIRECT ILLUMINATION

Luminaire No. B-591 retains the decorative lines of the N-591 but the two bowls have been joined into a single unit, thereby sacrificing the luminous bowl effect.

This luminaire is spun of heavy gage first quality sheet aluminum and makes a very rich appearance.

An efficient Permaфлектор provides the light control.

Additional Equipment: At additional cost.

Husk Extension—No. HE-1.

Canopy Collar—No. CC-1.



LUMINAIRE NO. N-591

("N" Type, Illuminated Bowl)

Finished in Scratched Aluminum with Polished Edges
Available only with Stem Hanger

INDIRECT ILLUMINATION

Luminaire No. N-591 is made up of two bowls, one mounted above the other. The upper bowl of horizontal shape is mounted just above the bullet-shaped bowl, allowing a subordinate spill of light to spread across the bottom of the upper bowl.

This luminaire is spun of heavy gage first quality sheet aluminum and makes a very rich appearance.

An efficient Permaфлектор provides the light control.

Additional Equipment: At additional cost.

Husk Extension—No. HE-1.

Canopy Collar—No. CC-1.

We recommend the use of Inside Frosted Lamps

Catalog No.	Lamp Size			Dia. of Bowl	Std. Suspension		Equipped with Permaфлектор	Standard Quantity	Weight Approx. Lbs.	*Retail Price Each	Code
	Watts	Type	Base		Top of Bowl to Ceiling	Overall					
B-591	300 500	PS-35 PS-40	Mogul	20"	30"	37 1/4"	B-509	1	8	\$14.50	BEFININON
N-591	300 500	PS-35 PS-40	Mogul	20"	30"	37 1/4"	B-509	1	8	15.50	ENFININON

*For shorter than standard suspension add \$0.30 cutting charge.

*For longer than standard suspension add \$0.05 per additional inch of suspension plus \$0.30 cutting charge.

PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA



PERMAFLECTOR INDIRECT LUMINAIRES



LUMINAIRES NOS. N-562, R-562, N-1062

("N" Type, Illuminated Bowl)

Finished in Satin Aluminum with Polished Edges
Available only with Stem Hanger

INDIRECT WITH DIRECT COMPONENT

These luminaires are excellent for store lighting. The direct lighting component adds materially to the effective illumination on the merchandise **without glare**.

These luminaires are spun of heavy gage first quality sheet aluminum and make a very rich appearance.

An efficient Permalector provides the light control.



LUMINAIRES NOS. N-562-C, R-562-C, N-1062-C

("N" Type, Illuminated Bowl)

Finished in Satin Aluminum with Polished Edges
Available only with Stem Hanger

INDIRECT WITH DIRECT COMPONENT

Same design as for N-562 except that the direct lighting component is directed through the louvered bottom member.

These luminaires are spun of heavy gage first quality sheet aluminum and make a very rich appearance.

An efficient Permalector provides the light control.

We recommend the use of Inside Frosted Lamps

Catalog No.	Lamp Size			Dia. of Bowl	Std. Suspension		Equipped with Permalector	Standard Quantity	Weight Approx. Lbs.	*Retail Price Each	Code
	Watts	Type	Base		Top of Bowl to Ceiling	Overall					
N-562	300 500	PS-35 PS-40	Mogul	21"	30"	37"	B-507	1	27	\$26.00	ENFISIXTU
R-562	500 750 1000	T-20 T-24 T-24	Medium Bi-post	21"	36"	43"	B-507	1	27	30.50	ARFISIXTU
N-1062	750 1000	PS-52 PS-52	Mogul	28"	36"	45"	B-1007	1	41	43.30	ENTENSIXTU
N-562-C	300 500	PS-35 PS-40	Mogul	21"	30"	37½"	B-507	1	27	26.00	ENFISIXTIC
R-562-C	500 750 1000	T-20 T-24 T-24	Medium Bi-post	21"	36"	43½"	B-507	1	27	30.50	ARFISIXTIC
N-1062-C	750 1000	PS-52 PS-52	Mogul	28"	36"	45½"	B-1007	1	41	43.30	ENTENSITIC

*For shorter than standard suspension add \$0.30 cutting charge.

*For longer than standard suspension add \$0.05 per additional inch of suspension plus \$0.30 cutting charge.



PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA

PERMAFLECTOR INDIRECT LUMINAIRES



LUMINAIRES NOS. N-561, R-561, N-1061

("N" Type, Illuminated Bowl)

Finished in Satin Aluminum with Polished Edges

Available only with Stem Hanger

INDIRECT ILLUMINATION

Exceptionally beautiful shallow bowl luminaires of the luminous type. Very striking, especially when color lense is used to "color-light" the bowl.

These luminaires are spun of heavy gage first quality sheet aluminum and make a very rich appearance.

An efficient Permaflexor provides the light control.

Additional Equipment: At additional cost.

Color-Lites—No. F-7 for use with N-561 or R-561.

No. F-8 for use with N-1061.



LUMINAIRE NO. N-593

("N" Type, Illuminated Bowl)

Finished in Polished and Satin Aluminum

Available only with Stem Hanger

INDIRECT ILLUMINATION

The N-593 is the luminous bowl type and is made of spun aluminum. The unusually shaped upper bowl is designed and mounted to trap a subordinate spill of light thereby creating a translucent effect which resembles illuminated glass. Unit is richly finished in contrasting tones of polished and satin aluminum.

This luminaire is spun of heavy gage first quality sheet aluminum.

An efficient Permaflexor provides the light control.

Additional Equipment: At additional cost.

Husk Extension—No. HE-1.

Canopy Collar—No. CC-1.

We recommend the use of Inside Frosted Lamps

Catalog No.	Lamp Size			Dia. of Bowl	Std. Suspension		Equipped with Permaflexor	Standard Quantity	Weight Approx. Lbs.	*Retail Price Each	Code
	Watts	Type	Base		Top of Bowl to Ceiling	Overall					
N-561	300 500	PS-35 PS-40	Mogul	21"	30"	37"	B-507	1	23	\$24.00	ENFISIXON
R-561	500 750 1000	T-20 T-24 T-24	Medium Bi-post	21"	36"	43"	B-507	1	23	28.50	ARFISIXON
N-1061	750 1000	PS-52 PS-52	Mogul	28"	36"	45"	B-1007	1	41	42.00	ENTENSIXON
N-593	300 500	PS-35 PS-40	Mogul	20"	30"	37"	B-509	1	14	18.00	EFIRE

*For shorter than standard suspension add \$0.30 cutting charge.

*For longer than standard suspension add \$0.05 per additional inch of suspension plus \$0.30 cutting charge.

PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA



PERMAFLECTOR INDIRECT LUMINAIRES



LUMINAIRES NOS. N-592-C, R-592-C

("N" Type, Illuminated Bowl)

Finished in Scratched Aluminum with Polished Edges
Available only with Stem Hanger

INDIRECT WITH DIRECT COMPONENT

Predominantly indirect but a minor portion of the light is directed downward through the louvered bottom member. This type of luminaire is often required for offices, stores and similar installations.

These luminaires are spun of heavy gage first quality sheet aluminum and make a very rich appearance.

An efficient Permaflexor provides the light control.

Additional Equipment: At additional cost.

Husk Extension—No. HE-1 for use with N-592-C.

No. HE-2 for use with R-592-C.

Canopy Collar—No. CC-1 for use with N-592-C or R-592-C.



LUMINAIRES NOS. B-621, A-621, B-1021

("B" Type, Totally Indirect)

Finished in Frosted Aluminum with Polished Edges
Available only with Stem Hanger

INDIRECT ILLUMINATION

Totally indirect luminaires of large diameter and shallow lines. The decorative bowl appeals to those desiring an ornamental design.

These luminaires are spun of heavy gage first quality sheet aluminum and makes a very rich appearance.

An efficient Permaflexor provides the light control.

Additional Equipment: At additional cost.

Husk Extension—No. HE-1 for use with B-621.

No. HE-2 for use with A-621.

We recommend the use of Inside Frosted Lamps

Catalog No.	Lamp Size			Dia. of Bowl	Std. Suspension		Equipped with Permaflexor	Standard Quantity	Weight Approx. Lbs.	*Retail Price Each	Code
	Watts	Type	Base		Top of Bowl to Ceiling	Overall					
N-592-C	300 500	PS-35 PS-40	Mogul	21"	30"	37"	B-507	1	21	\$22.50	EFITU
R-592-C	500 750 1000	T-20 T-24 T-24	Medium Bi-post	21"	36"	43"	B-507	1	21	25.50	ARFIT
B-621	300 500	PS-35 PS-40	Mogul	21"	30"	37"	B-507	1	22	21.00	BESITON
A-621	500 750 1000	T-20 T-24 T-24	Medium Bi-post	21"	36"	43"	B-507	1	22	24.00	AYSITON
B-1021	750 1000	PS-52 PS-52	Mogul	28"	36"	47 $\frac{1}{4}$ "	B-1007	1	18	28.50	BETENTUWON

*For shorter than standard suspension add \$0.30 cutting charge.

*For longer than standard suspension add \$0.05 per additional inch of suspension plus \$0.30 cutting charge.

 **PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA**

PERMAFLECTOR INDIRECT LUMINAIRES



LUMINAIRES NOS. N-621, R-621, N-1021

(“N” Type, Illuminated Bowl)
Finished in Satin Aluminum with Polished Edges
Available only with Stem Hanger

INDIRECT ILLUMINATION

This luminaire design is very attractive for the illumination of interiors requiring decorative lighting equipment. The upper bowl is luminous by reflected light from the lower bowl and this reflected light may be colored as explained on Page 87.

These luminaires are spun of heavy gage first quality sheet aluminum and make a very rich appearance.

An efficient Permaflexor provides the light control.

Additional Equipment: At additional cost.

Husk Extension—No. HE-1 for use with No. N-621.

No. HE-2 for use with No. R-621.

Color-Lites—No. F-7 for use with No. N-621 or R-621.

No. F-8 for use with No. N-1021.



LUMINAIRES NOS. N-622-C, R-622-C

(“N” Type, Illuminated Bowl)
Finished in Satin Aluminum with Polished Edges
Available only with Stem Hanger

INDIRECT WITH DIRECT COMPONENT

Predominantly indirect but a minor portion of the light is directed downward through the louvered bottom member. This type of luminaire is often required for offices, stores and similar installations.

These luminaires are spun of heavy gage first quality sheet aluminum and make a very rich appearance.

An efficient Permaflexor provides the light control.

Additional Equipment: At additional cost.

Husk Extension—No. HE-1 for use with N-622-C.

No. HE-2 for use with R-622-C.

We recommend the use of inside Frosted Lamps

Catalog No.	Lamp Size			Dia. of Bowl	Std. Suspension		Equipped with Permaflexor	Standard Quantity	Weight Approx. Lbs.	*Retail Price Each	Code
	Watts	Type	Base		Top of Bowl to Ceiling	Overall					
N-621	300 500	PS-35 PS-40	Mogul	21"	30"	37 $\frac{1}{4}$ "	B-507	1	22	\$22.50	ENSITON
R-621	500 750 1000	T-20 T-24 T-24	Medium Bi-post	21"	36"	43 $\frac{1}{4}$ "	B-507	1	22	25.50	ARSITON
N-1021	750 1000	PS-52 PS-52	Mogul	28"	36"	47 $\frac{1}{4}$ "	B-1007	1	18	29.50	ENTENTUWON
N-622-C	300 500	PS-35 PS-40	Mogul	21"	30"	36 $\frac{3}{4}$ "	B-507	1	22	23.30	ENSITUC
R-622-C	500 750 1000	T-20 T-24 T-24	Medium Bi-post	21"	36"	42 $\frac{3}{4}$ "	B-507	1	22	26.30	ARSITUC

*For shorter than standard suspension add \$0.30 cutting charge.

*For longer than standard suspension add \$0.05 per additional inch of suspension plus \$0.30 cutting charge.

PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA



PERMAFLECTOR DIRECT LIGHTING LUMINAIRES



LUMINAIRE No. 3200-R with Stippled Roundel Bottom



LUMINAIRE No. 5300-L with Concentric Louver Bottom

Nos.
3200-L
3200-R
5300-L
5300-R
1750-L
1750-R

DIRECT LIGHTING LUMINAIRES

Finished in Scratched Aluminum with Polished Trim

Available only with Stem Hanger

Permalector Direct Lighting Luminaires are designed to efficiently provide glareless, high intensity, direct illumination on store merchandise, and, at the same time, furnish moderate illumination on the ceiling.

directs the bulk of the light downward through the concentric louver or stippled roundel. A very small portion of the light is intercepted by the lower spinning for illumination of the ornamental bowl. Another small portion is re-reflected upward to the ceiling where it is widely spread, supplying moderate ceiling illumination.

Each of these units contains an efficient Permalector which

WITH CONCENTRIC LOUVER BOTTOM

Luminaire Cat. No.	Lamp Size			Dia. of Bowl	Std. Suspension		Equipped with Permalector No.	Quantity of Louver Vanes	Standard Quantity	Weight Approx. Lbs.	Retail Price Each	Code
	Watts	Type	Base		Top of Bowl to Ceiling	Overall						
3200-L	200 300	PS-30 PS-35	Med. Med.	20"	30"	35"	E-230-GO	5	1	19	\$24.00	TRETUHUL
5300-L	300 500	PS-35 PS-40	Mog. Mog.	22"	30"	35 1/2"	E-500-GO	7	1	20	33.00	FITREHUL
1750-L	750 1000	PS-52 PS-52	Mog. Mog.	28"	36"	42 3/4"	I-1005-GO	10	1	35	50.00	ONSEFUL

WITH STIPPLED ROUND EL BOTTOM

Luminaire Cat. No.	Lamp Size			Dia. of Bowl	Std. Suspension		Equipped with Permalector No.	Diameter of Roundel	Standard Quantity	Weight Approx. Lbs.	Retail Price Each	Code
	Watts	Type	Base		Top of Bowl to Ceiling	Overall						
3200-R	200 300	PS-30 PS-35	Med. Med.	20"	30"	35"	E-230-GO	12"	1	18	\$26.50	TRETUHAR
5300-R	300 500	PS-35 PS-40	Mog. Mog.	22"	30"	35 1/2"	E-500-GO	13 3/4"	1	31	37.00	FITREHAR
1750-R	750 1000	PS-52 PS-52	Mog. Mog.	28"	36"	42 3/4"	I-1005-GO	15 3/4"	1	34	54.70	ONSEFAR

*For shorter than standard suspension add \$0.30 cutting charge.

*For longer than standard suspension add \$0.05 per additional inch of suspension plus \$0.30 cutting charge.

 PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA

PERMAFLECTOR DIRECT LIGHTING LUMINAIRES



LUMINAIRE No. 3201-L
with Concentric Louver Bottom

Nos.
3201-L
3201-R
5301-L
5301-R
1751-L
1751-R



LUMINAIRE No. 3201-R
with Stippled Roundel Bottom

DIRECT LIGHTING LUMINAIRES

(For Surface Mounting)

Finished in Scratched Aluminum with Polished Trim

Permaflexor Direct Lighting Luminaires are designed to efficiently provide glareless, high intensity, direct illumination on store merchandise, and at the same time, furnish moderate illumination on the ceiling. They are especially desirable for use in stores having ceilings too low to permit the use of suspension type direct lighting luminaires. Also, for application where direct lighting is required and architectural conditions do not permit recessed equipment.

Each of these units contains an efficient Permaflexor which directs the bulk of the light downward through the concentric louver or stippled roundel. A very small portion of the light is intercepted by the lower spinning for illumination of the ornamental bowl. Another small portion is re-flected upward to the ceiling where it is widely spread, supplying moderate ceiling illumination.

WITH CONCENTRIC LOUVER BOTTOM

Luminaire Cat. No.	Lamp Size			Dia. of Bowl	Height		Equipped with Perma- flexor No.	Quantity of Louver Vanes	Standard Quantity	Weight Approx. Lbs.	Retail Price Each	Code
	Watts	Type	Base		Top of Bowl to Ceiling	Overall						
3201-L	200 300	PS-30 PS-35	Med. Med.	20"	8 1/4"	13 1/4"	E-230-GO	5	1	15	\$24.00	TRETWONEL
5301-L	300 500	PS-35 PS-40	Mog. Mog.	22"	11"	15 1/4"	E-500-GO	7	1	29	33.00	FITWONEL
1751-L	750 1000	PS-52 PS-52	Mog. Mog.	28"	13 1/2"	20"	I-1005-GO	10	1	37	50.00	ONSWONEL

WITH STIPPLED ROUND EL BOTTOM

Luminaire Cat. No.	Lamp Size			Dia. of Bowl	Height		Equipped with Perma- flexor No.	Diameter of Roundel	Standard Quantity	Weight Approx. Lbs.	Retail Price Each	Code
	Watts	Type	Base		Top of Bowl to Ceiling	Overall						
3201-R	200 300	PS-30 PS-35	Med. Med.	20"	8 1/4"	13 1/4"	E-230-GO	12"	1	17	\$26.50	TRETWONAR
5301-R	300 500	PS-35 PS-40	Mog. Mog.	22"	11"	15 1/4"	E-500-GO	13 3/4"	1	29	37.00	FITWONAR
1751-R	750 1000	PS-52 PS-52	Mog. Mog.	28"	13 1/2"	20"	I-1005-GO	15 3/4"	1	42	54.70	ONSWONAR



PERMAFLECTOR WALL URNS

Permalector Wall Urns contain an asymmetric type silvered glass reflector which efficiently reflects and controls the light. This Permalector throws the light away from the wall, projecting it in a wide sweep over the ceiling thus providing well

diffused, totally indirect light over a broad area. Designed to provide excellent lighting for residences, private offices, lounges, clubs, hotels, restaurants and similar locations.



Permalector Wall Urn No. WU-990-3

WALL URN NO. WU-990-3

Unit is made of spun aluminum. It is very light and may be quickly and easily installed. It is shipped knocked down, unwired. Unit should be wired from recessed outlet box through tubing into bowl or socket.



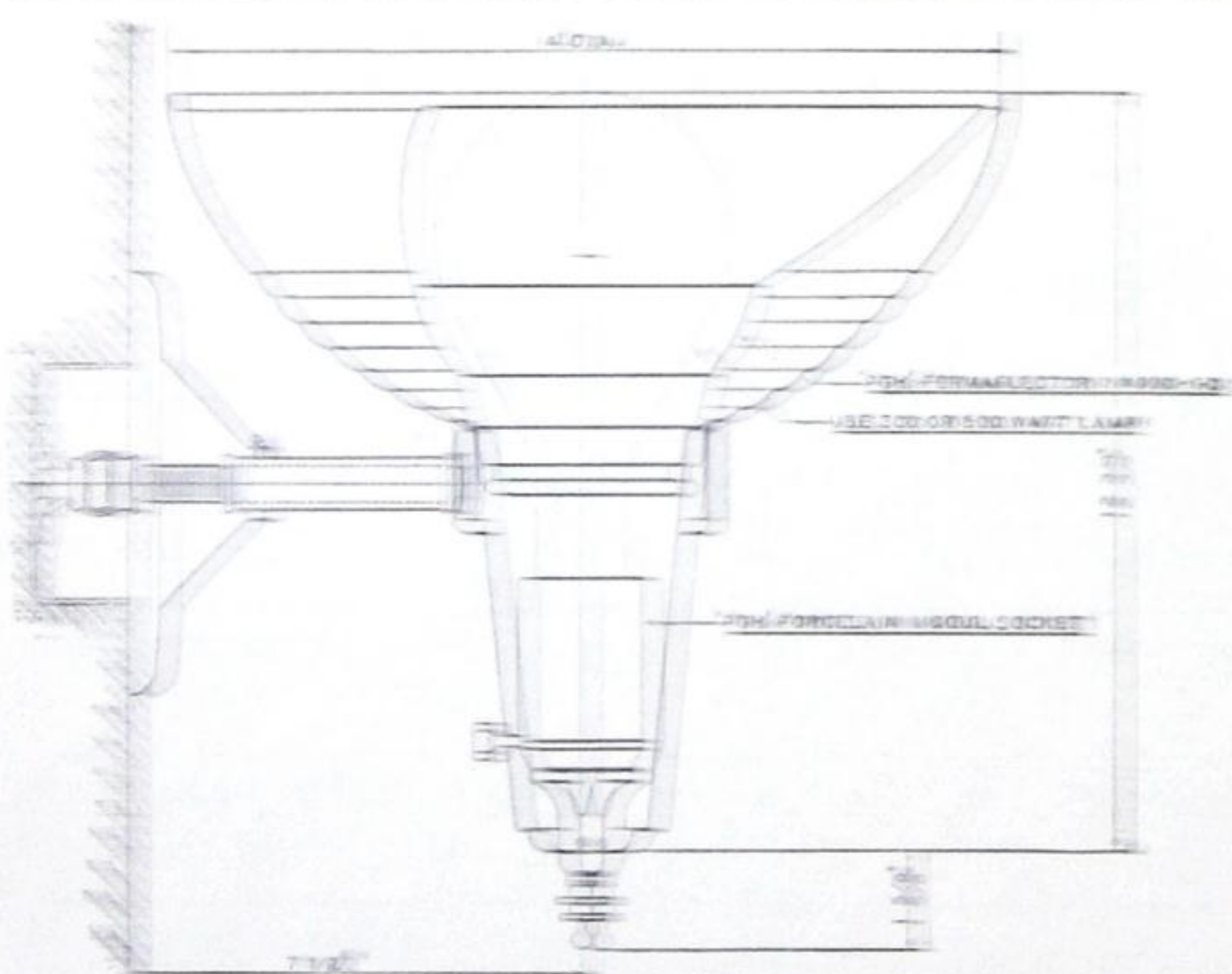
Permalector Wall Urn No. 16728

WALL URN NO. 16728

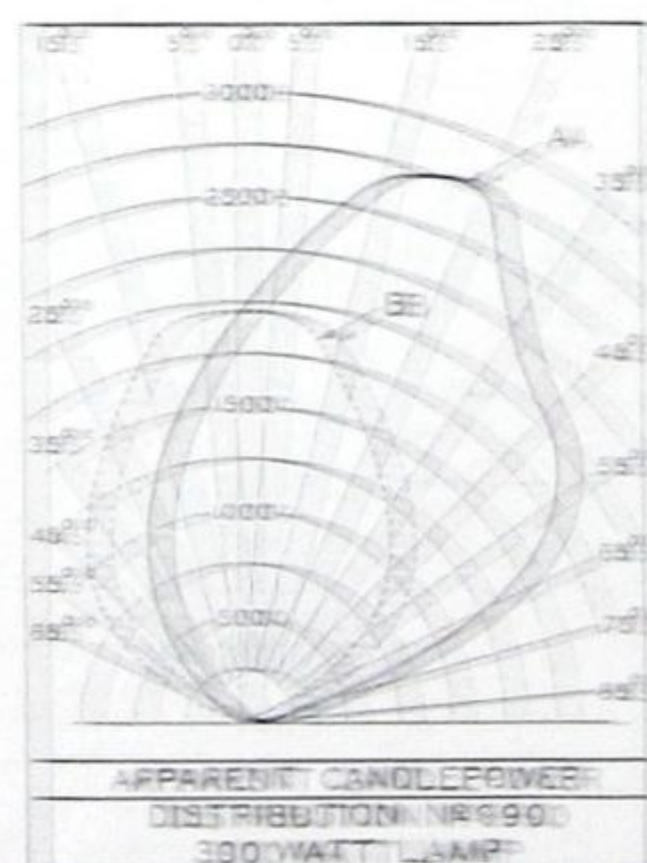
Unit is made in single piece, cast aluminum. It is shipped unwired. Attaches directly to recessed outlet box cover stud.

Catalog Number	WU-990-3
Height	14 3/8"
Diameter at Top	14"
Permalector Number	990-GQ
Lamp Size	500-300-200 Watt PS Type 3-Lite I. E. (300 or 500 W. PS Type single-filament I. E. lamp can be used without change of socket)
Standard Finish	Scratched and Polished Aluminum
Projection from Wall	14 1/2"
Shipping Weight	10 lbs.
One Urn Packed	WU-990-3
Code	
Retail Price, Each	\$20.00

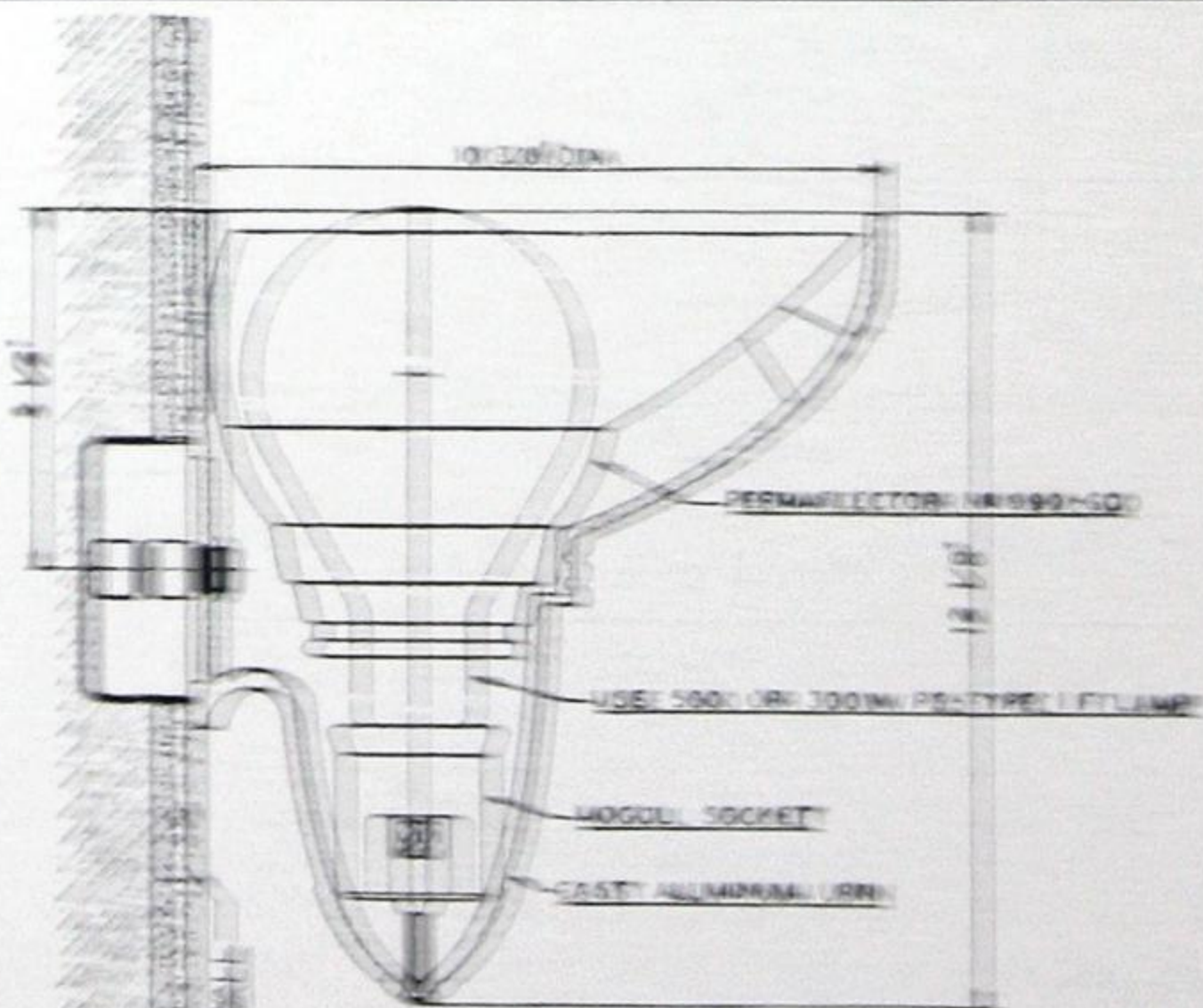
Catalog Number	16728
Height	12 1/8"
Diameter at Top	10 3/8"
Permalector Number	990-GQ
Lamp Size	500 Watt or 300 Watt PS Type I. E.
Standard Finish	Satin Aluminum with Polished Trim
Projection from Wall	10 1/2"
Shipping Weight	10 lbs.
One Urn Packed	URN-16728
Code	
Retail Price, Each	\$27.00



Cross Section of Wall Urn No. WU-990-3



Distribution of Permalector No. 990-GQ used in Wall Urns No. WU-990-3 and No. 16728



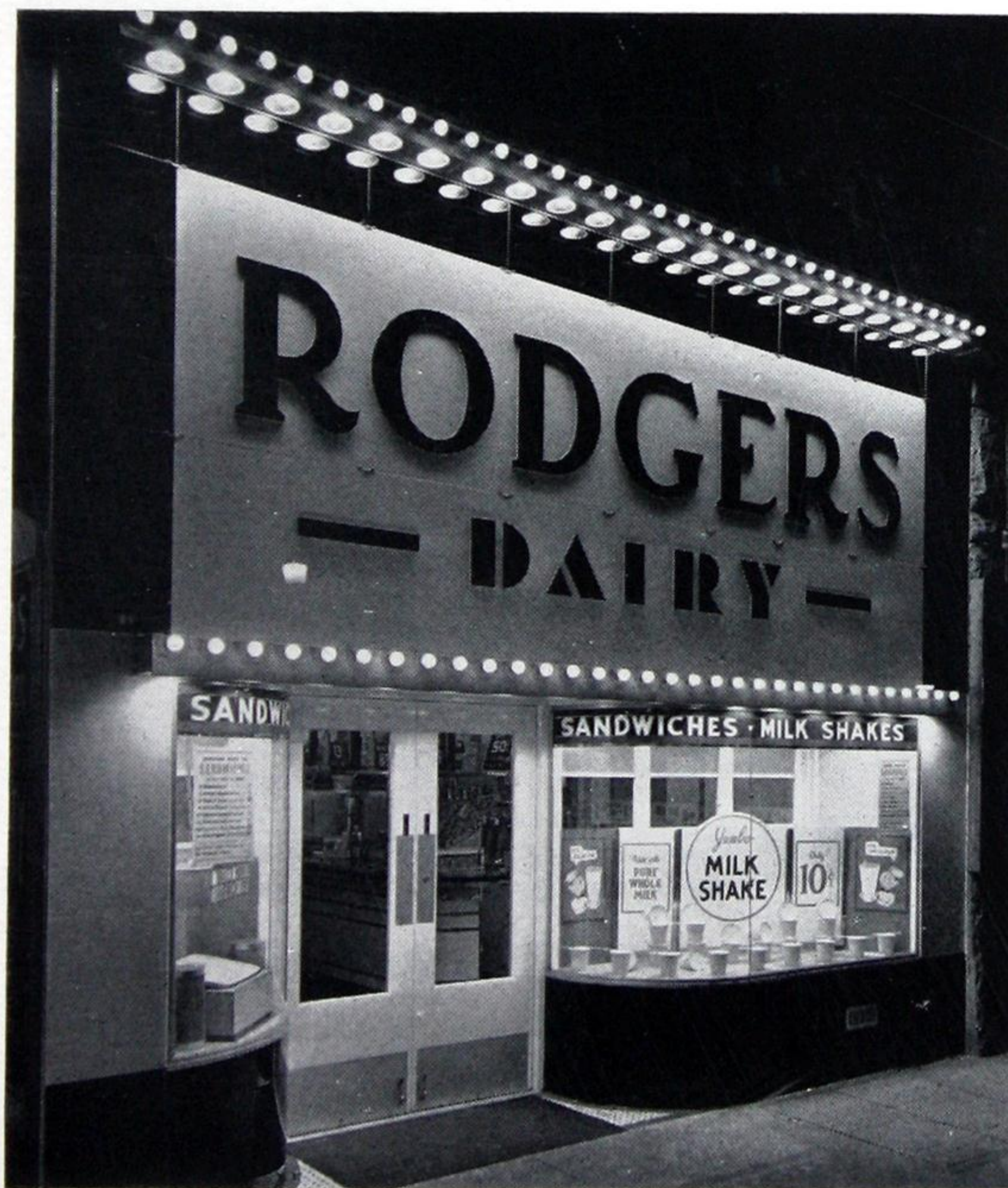
Cross Section of Wall Urn No. 16728

PERMAFLECTOR FLOOR LAMP NO. FB-210-3

An indirect floor lamp of exceptional beauty. Supplies well-diffused, totally-indirect light over a wide area. Attractively finished in our Satin Aluminum. Designed for home lighting service. Also excellent for private offices, lounges, clubs, hotels and similar service.

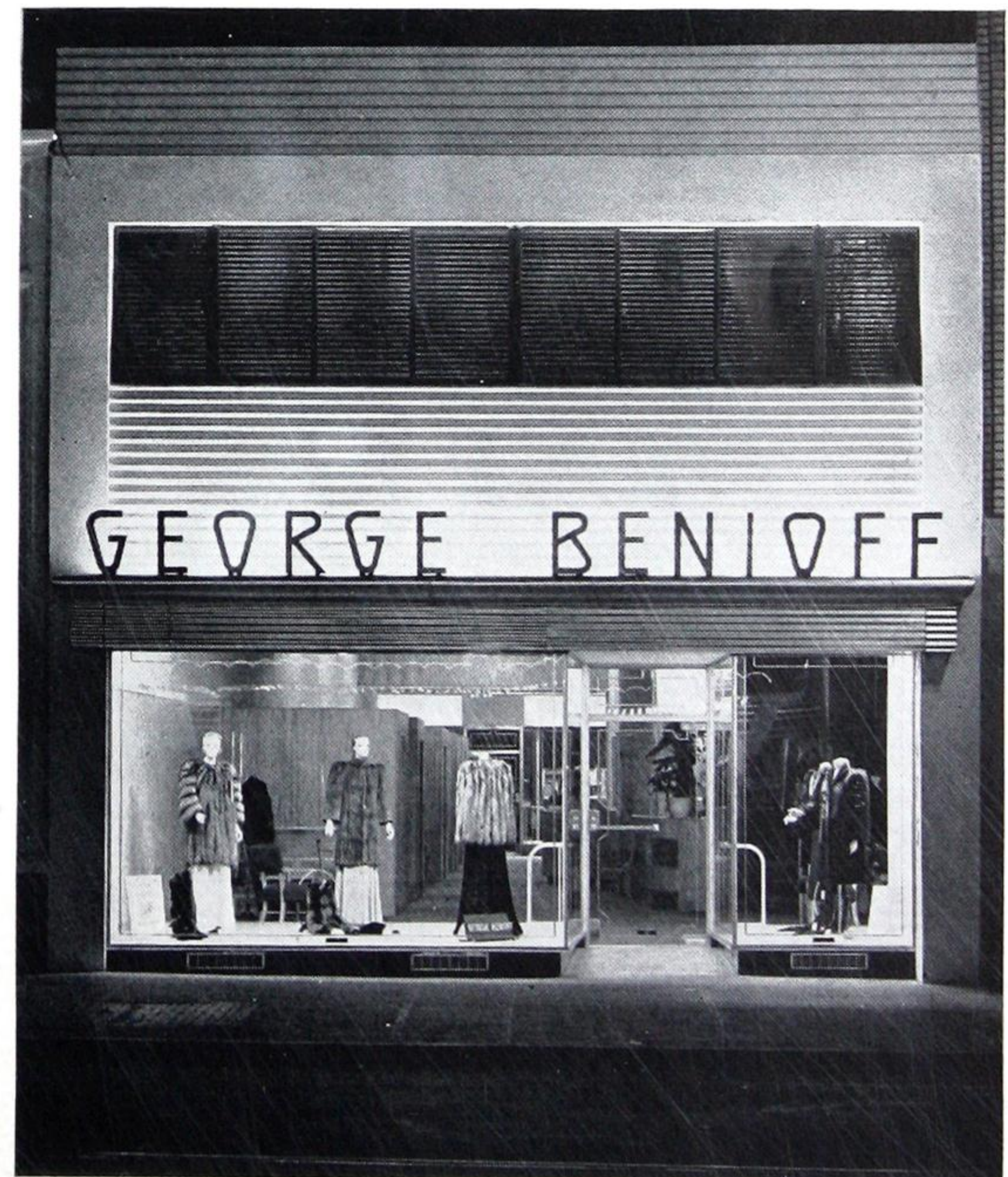
The bowl of the lamp encloses a symmetric type Perma-flector, the silvered glass reflector with the permanent efficiency, which reflects and distributes the light broadly and uniformly in all directions. Lamp may be placed in any desired location in the room.

Catalog Number.....	FB-210-3
Height.....	66"
Diameter at Top.....	12"
Permalector Number.....	B-201
Lamp Size.....	100-200-300 Watts Type 3-Lite I. F. Satin Aluminum
Standard Finish.....	
Shipping Weight	
One Floor Lamp Packed.....	25 lbs.
Code.....	EFBETUNTRE
Retail Price, Each.....	\$19.00



Architect—F. H. Smart, Pittsburgh, Pa.
Electrical Contractor—W. J. Zuck, Pittsburgh, Pa.

Permalectors No's 1-25 and 28 have been mounted in two troughs to direct high intensity illumination over the store front and windows of Rodgers Dairy, Pittsburgh, Pa. An effective and unique design idea.

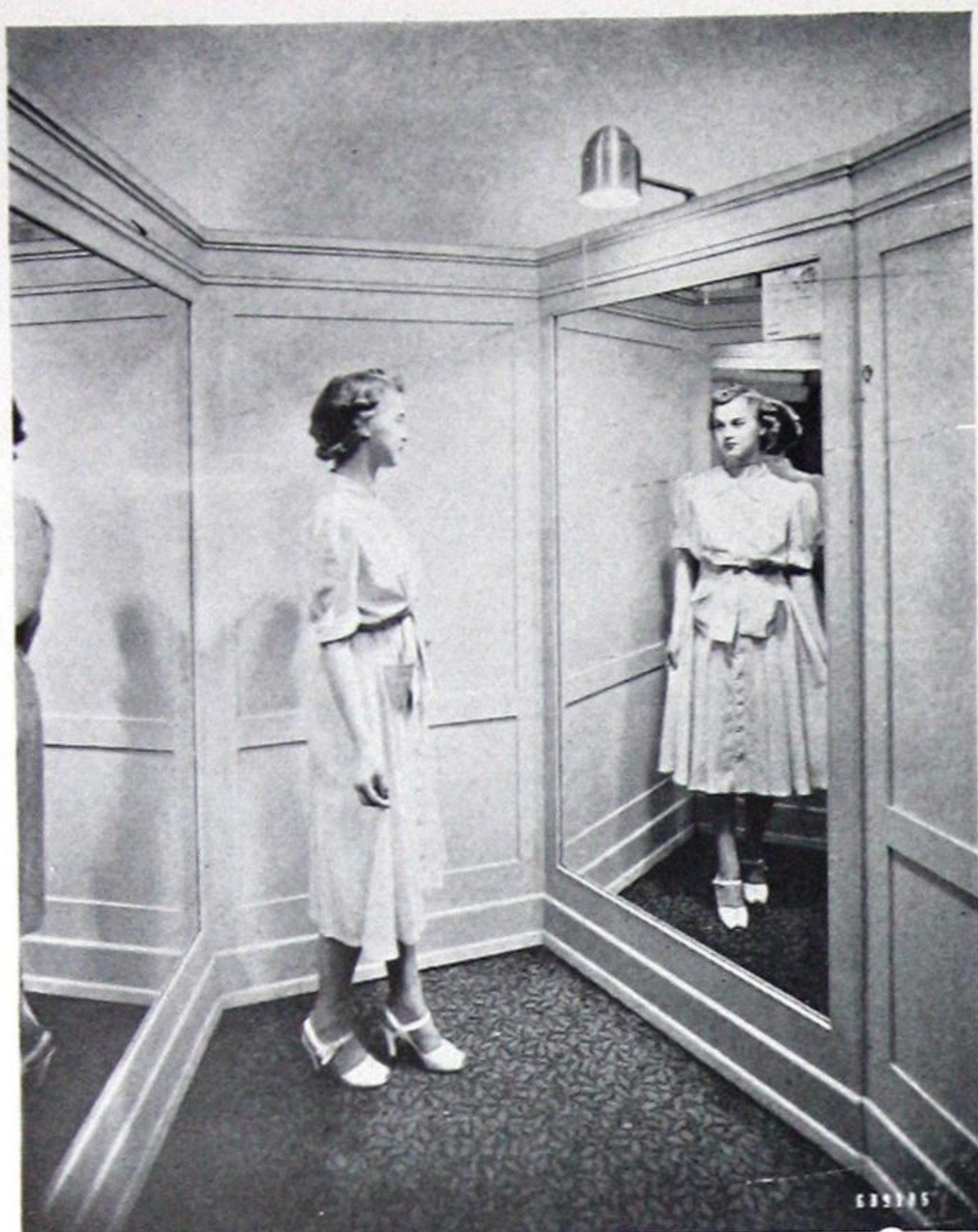


Architect—John Dinwiddie, San Francisco.
Electrical Contractor—T. C. Rosenberg, Oakland, Cal.

The store front and sign on the above store of George Benioff San Francisco, are illuminated by Permalectors No. P-75 mounted in a concealed panel. Show windows are lighted brilliantly by Permalectors No. 99.

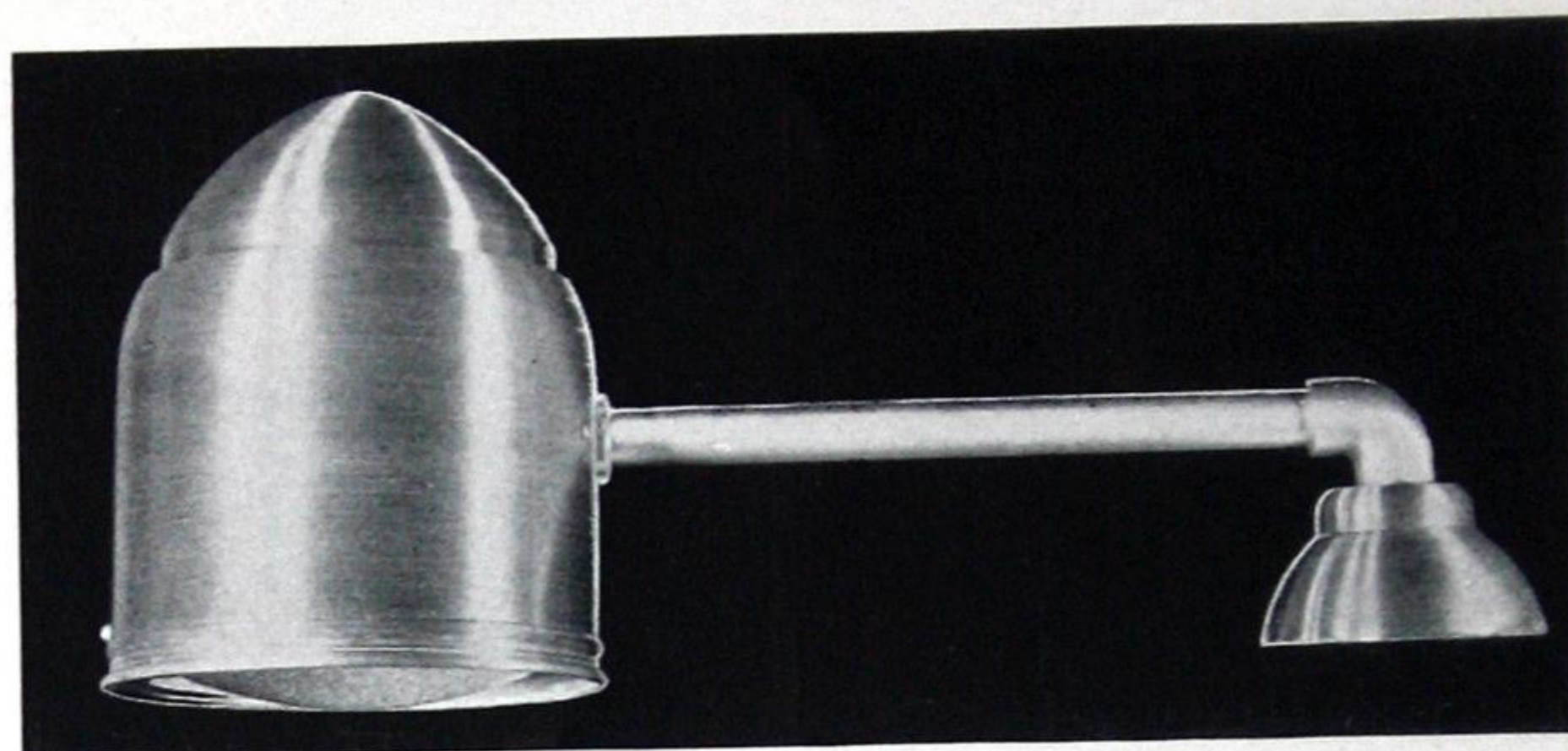


PERMAFLECTOR FITTING ROOM UNITS



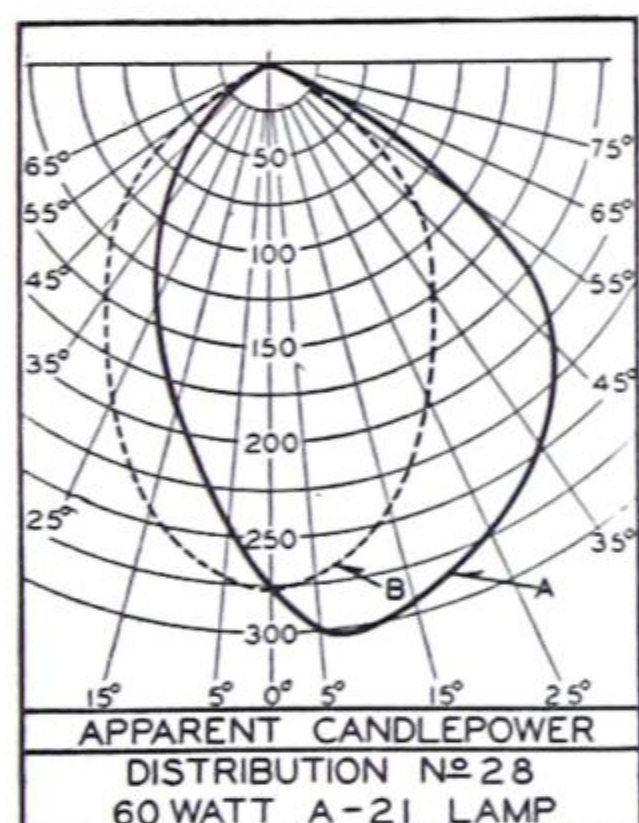
Installation of Unit No. H-64 in fitting room of Gimbel Bros., Pittsburgh, Pa.

Permaflexor Direct Lighting Units Nos. H-64 and H-65 offer a new and vastly better solution to the problem of illuminating store fitting rooms. Each of these attractive new units contains an asymmetric-type Permaflexor which provides a higher intensity of light (per watt) evenly distributed over the customer's figure. The light is soft and flattering and enhances the beauty of any garment. These units are small, light, yet sturdily built. They are easily, quickly installed and require little or no maintenance except for re-lamping. The rich, gleaming scratched aluminum finish and simple lines make these units beautifully modern. A pull-type canopy switch and short length of bead chain is installed in each unit. Units are shipped assembled ready for mounting and wiring. In addition to their application in fitting rooms, these units may be very successfully used over store floor mirrors and wall table displays, work benches and for illumination of hospital beds.



DIRECT LIGHTING UNIT NO. H-64

Permaflexor Unit No. H-64 is designed for mounting on top of the fitting room partition.

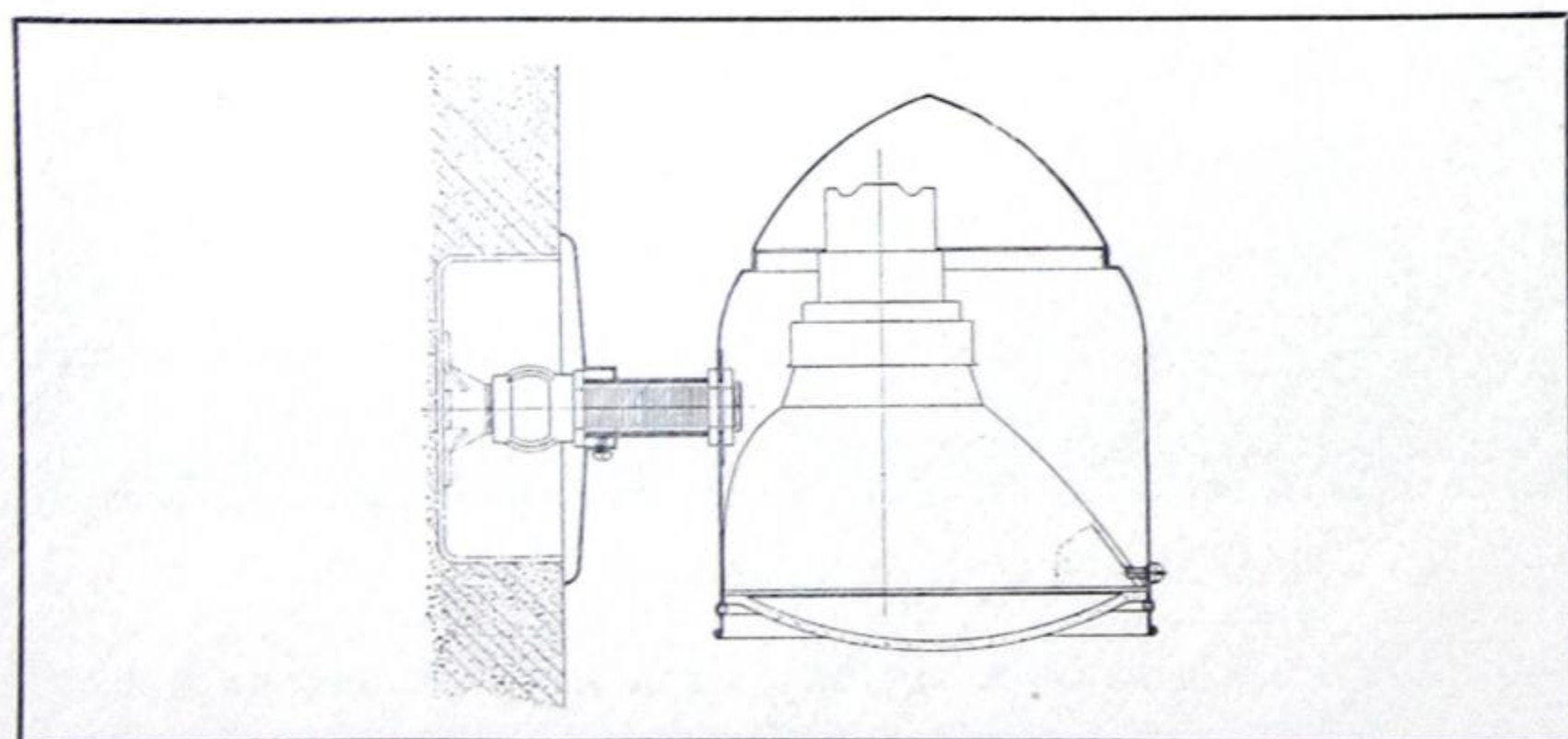


Distribution of asymmetric-type Permaflexor No. 28 used in both H-64 and H-65 units.

Direct Unit No.....	H-64
Type of Lamp.....	60-watt PS Type
Diameter of Housing.....	5 3/4"
Height of Housing.....	7 1/4"
Distance from Wall to Center of Lamp When Mounted.....	9 1/4"
Permaflexor No.....	28-Special
Standard Finish	Scratched
Aluminum Parts.....	Aluminum
Other Exposed Parts.....	Satin
Standard Switch.....	Aluminum Pull-type Canopy Switch
Shipping Weight (One Unit Packed).....	3 1/2 lbs.
Code.....	ACHSIXFO
Retail Price, Each.....	\$8.50

DIRECT LIGHTING UNIT NO. H-65

Unit No. H-65 is equipped for wall mounting by attaching to a recessed outlet box.



Cross-Section Sketch of Permaflexor Direct Lighting Unit No. H-65.

Direct Unit No.....	H-65
Type of Lamp.....	60-watt PS Type
Diameter of Housing.....	5 3/4"
Height of Housing.....	7 1/4"
Distance from Wall to Center of Lamp When Mounted.....	4 1/4"
Permaflexor No.....	28-Special
Standard Finish	Scratched
Aluminum Parts.....	Aluminum
Other Exposed Parts.....	Satin
Standard Switch.....	Aluminum Pull-type Canopy Switch
Shipping Weight (One Unit Packed).....	3 1/2 lbs.
Code.....	ACHSIXFI
Retail Price, Each.....	\$8.50

PERMAFLECTOR INSTALLATIONS



Electrical Contractor—Beach Electric Co.

Ohrbach's, Inc., Newark, New Jersey, installed ninety-six Permaflexor Direct Luminaires No. 3200-L which floodlight the merchandise and supply moderate ceiling illumination as well. Intensities on the merchandise average 25 footcandles of illumination.



Halle Brothers, Cleveland, Ohio, is using one hundred and fifty-one Permaflexor Luminaires to obtain 27 footcandles of indirect illumination in its offices.



Architects—Starett & Van Vleck, N. Y. C.
Electrical Contractor—Volker Bros., Buffalo, N. Y.

Recessed Permaflexors and Permaflexor Luminaires supply a combination of direct and indirect illumination for J. H. Adam Company, Niagara Falls, N. Y.

PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA



PERMAFLECTOR FLOODLIGHTS

PERMAFLECTOR FLOODLIGHT NO. FLC-100 PERMAFLECTOR FLOODLIGHT NO. FLC-103



Application—For lighting vertical surfaces of a height of twelve feet or less, from equipment close to the face of such vertical surfaces. **Cannot be used for downward lighting.**

Description—A fixed-focus floodlight consisting of galvanized steel channel, to which are attached individual conical-spun aluminum drums, each containing Permaflector No. I-60, medium base Socket No. 1 and 8" diameter heat resisting clear cover glass (also available in stippled) cemented in cover. This channel must be supported by means of special iron brackets.

Spacings on Centers:

Units may be ordered any spacing desired.

Minimum spacings, 9 1/4 inches on centers.

Beam Spread—Extra broad, 120 degree spread.

Dimensions:

Over-all height, including channel—9 1/2 inches.

Over-all diameter at top—9 inches.

Lamp Size—100 Watt A-23.

Minimum Quantity—Two mounted on channel.

Retail Price, Each Floodlight:

Mounted on galvanized steel channel—

Spaced 9 1/4 inches to 24 inches on centers.....\$12.50

For wider spacings add 5c per additional inch over 24 inches.

Mounted on copper channel—

Spaced 9 1/4 inches to 24 inches on centers.....\$14.00

For wider spacings add 10c per additional inch over 24 inches.

Retail price on brackets upon request.

Code.....FLUDHUNDER

Additional Equipment—for use with No. FLC-100.

For Colored Lighting—Use Color-Lite No. F-2.

PERMAFLECTOR FLOODLIGHT NO. FLC-100-A

Same as Floodlight No. FLC-100 except mounted on individual cast aluminum boxes, drilled and tapped for 1/2" rigid conduit nipples. When ordering advise number and placement of openings for each box.

Standard Quantity—1

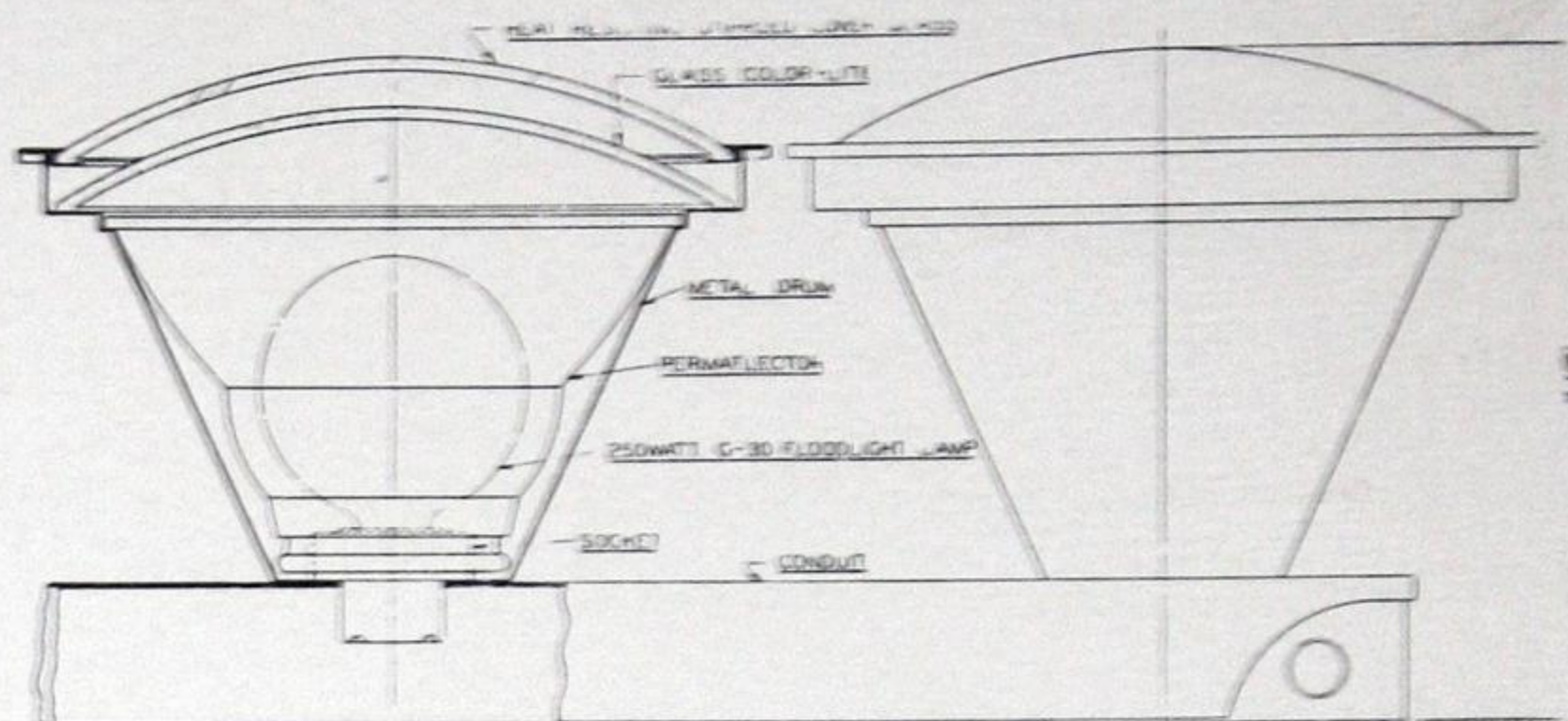
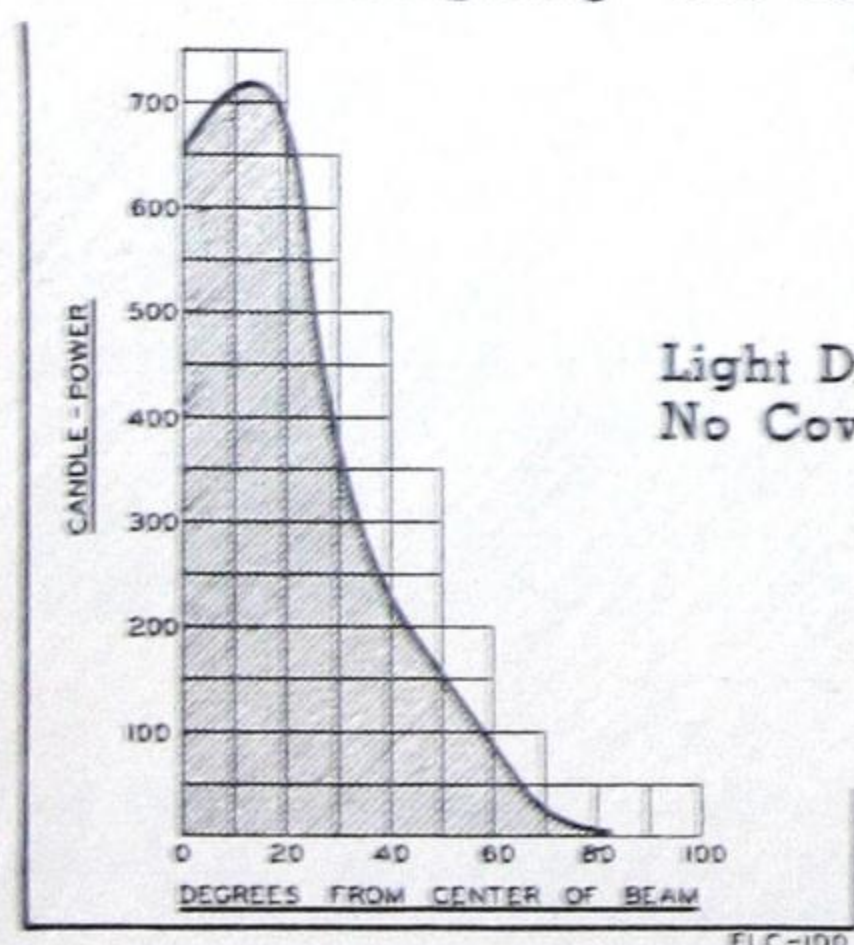
Weight, Approx. 6 lbs.

Retail Price, Each.....\$12.50

Code.....FLUHUNAYE

Additional Equipment—for use with No. FLC-100-A.

For Colored Lighting—Use Color-Lite No. F-2.



Application—For lighting vertical surfaces from equipment close to base of such surfaces. A vertical throw of 50 feet may be handled very conveniently and effectively. **Cannot be used for downward lighting.**

Description—A fixed-focus floodlight consisting of galvanized steel channel, to which are attached individual conical-spun aluminum drums each containing Permaflector No. C-101-GO, medium base socket No. 1 and 9 1/8" diameter heat resisting clear cover glass (also available in stippled or dioptric) cemented in cover. This channel must be supported by means of special iron brackets.

Spacings on Centers:

Units may be ordered any spacing desired.

Minimum spacings, 10 3/4 inches on centers.

Beam Spread—Medium beam 25 degree spread.

Dimensions:

Over-all height, including channel—9 3/4 inches.

Over-all diameter at top—10 5/8 inches.

Lamp Size—250 Watt G-30 floodlight lamp.

Minimum Quantity—Two mounted on channel.

Retail Price, Each Floodlight:

Mounted on galvanized steel channel—

Spaced 10 3/4 inches to 24 inches on centers.....\$15.00

For wider spacings add 5c per additional inch over 24 inches.

Mounted on copper channel—

Spaced 10 3/4 inches to 24 inches on centers.....\$16.50

For wider spacings add 10c per additional inch over 24 inches.

Retail price on brackets upon request.

Code.....FLUHUNTREE

Additional Equipment—for use with No. FLC-103.

For Colored Lighting—Use Color-Lite No. F-4.

PERMAFLECTOR FLOODLIGHT NO. FLC-103-A

Same as Floodlight No. FLC-103 except mounted on individual cast aluminum boxes, drilled and tapped for 1/2" rigid conduit nipples. When ordering advise number and placement of openings for each box.

Standard Quantity—1

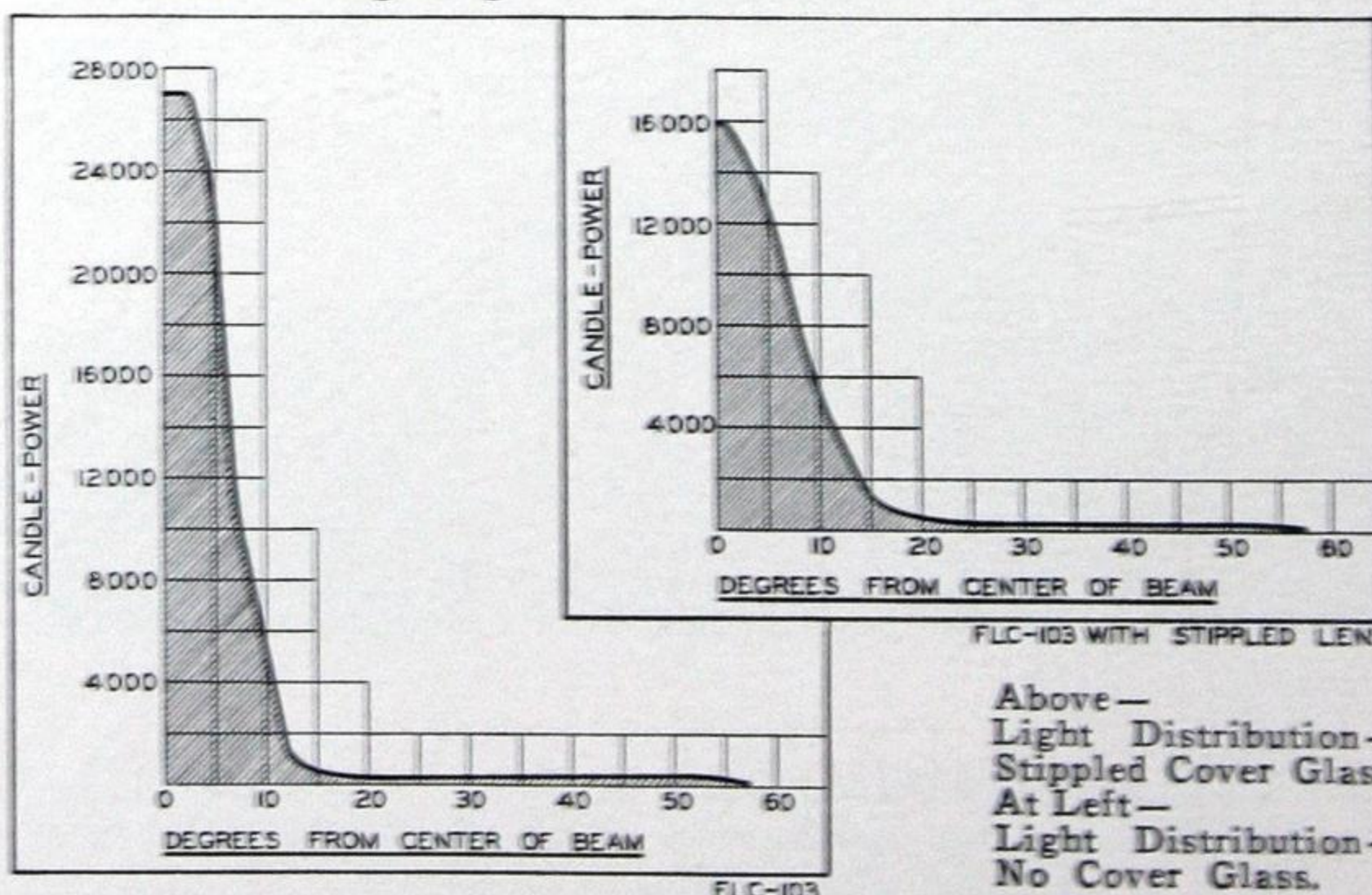
Weight, Approx. 9 lbs.

Retail Price, Each.....\$15.00

Code.....FLUHUNTRA

Additional Equipment—for use with No. FLC-103-A.

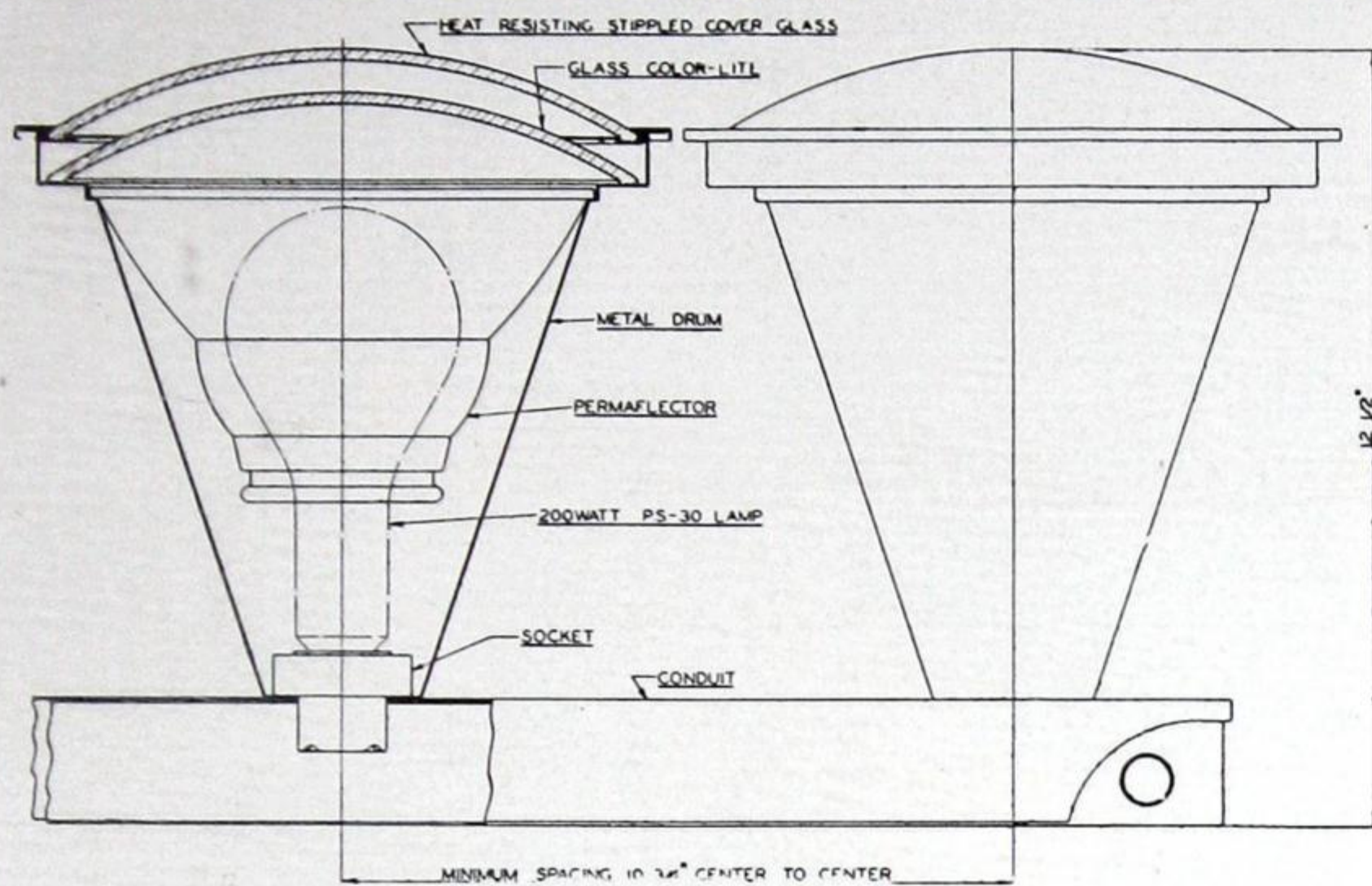
For Colored Lighting—Use Color-Lite No. F-4.



PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA

PERMAFLECTOR FLOODLIGHTS

PERMAFLECTOR FLOODLIGHT NO. FLC-104



Application—For lighting vertical surfaces in general to a height of 20 feet from equipment close to base of such surfaces.

Cannot be used for downward lighting.

Description—A fixed-focus floodlight consisting of galvanized steel channel, to which are attached individual conical-spun aluminum drums each containing Permaflector No. C-101-GO medium base socket No. 1 and 9 7/8" diameter heat resisting clear cover glass (also available in stippled or dioptric) cemented in cover. This channel must be supported by means of special iron brackets.

Spacings on Centers:

Units may be ordered any spacing desired.

Minimum spacings, 10 3/4 inches on centers.

Beam Spread—Broad beam, 40 degree spread.

Dimensions:

Over-all height, including channel—12 1/2 inches.

Over-all diameter at top—10 5/8 inches.

Lamp Size—200 Watt PS-30.

Minimum Quantity—Two mounted on channel.

Retail Price, Each Floodlight:

Mounted on galvanized steel channel—

Spaced 10 3/4 inches to 24 inches on centers.....\$15.00

For wider spacings add 5c per additional inch over 24 inches.

Mounted on copper channel—

Spaced 10 3/4 inches to 24 inches on centers.....\$16.50

For wider spacings add 10c per additional inch over 24 inches.

Retail price on brackets upon request.

CodeFLUDHUNFOR

Additional Equipment—for use with No. FLC-104.

For Colored Lighting—Use Color-Lite No. F-4.

PERMAFLECTOR FLOODLIGHT NO. FLC-104-A

Same as Floodlight No. FLC-104 except mounted on individual cast aluminum boxes, drilled and tapped for 1/2" rigid conduit nipples. When ordering advise number and placement of openings for each box.

Standard Quantity—1

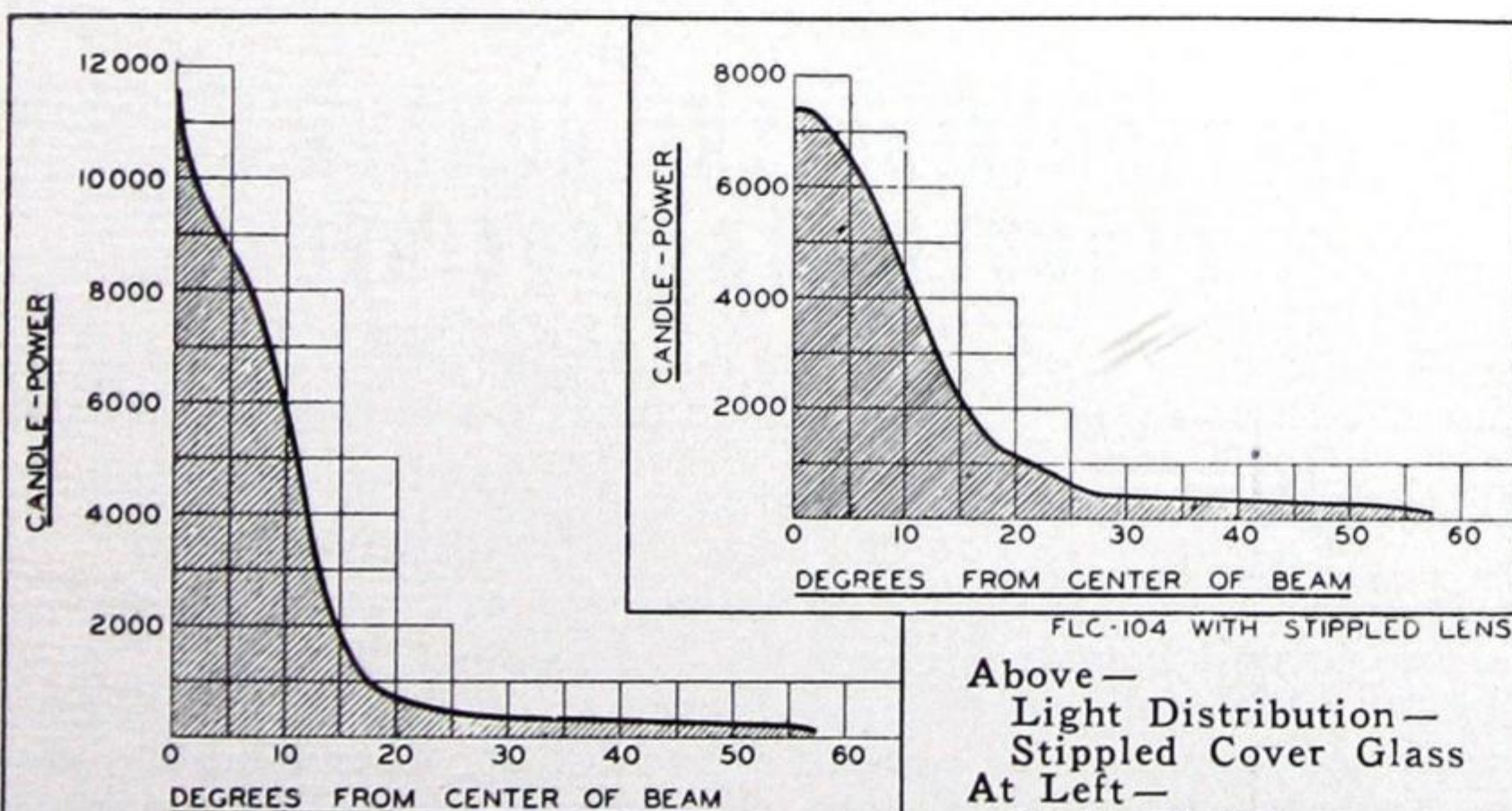
Weight, Approx. 9 lbs.

Retail Price, Each.....\$15.00

CodeFLUHUNFRA

Additional Equipment—for use with No. FLC-104-A.

For Colored Lighting—Use Color-Lite No. F-4.

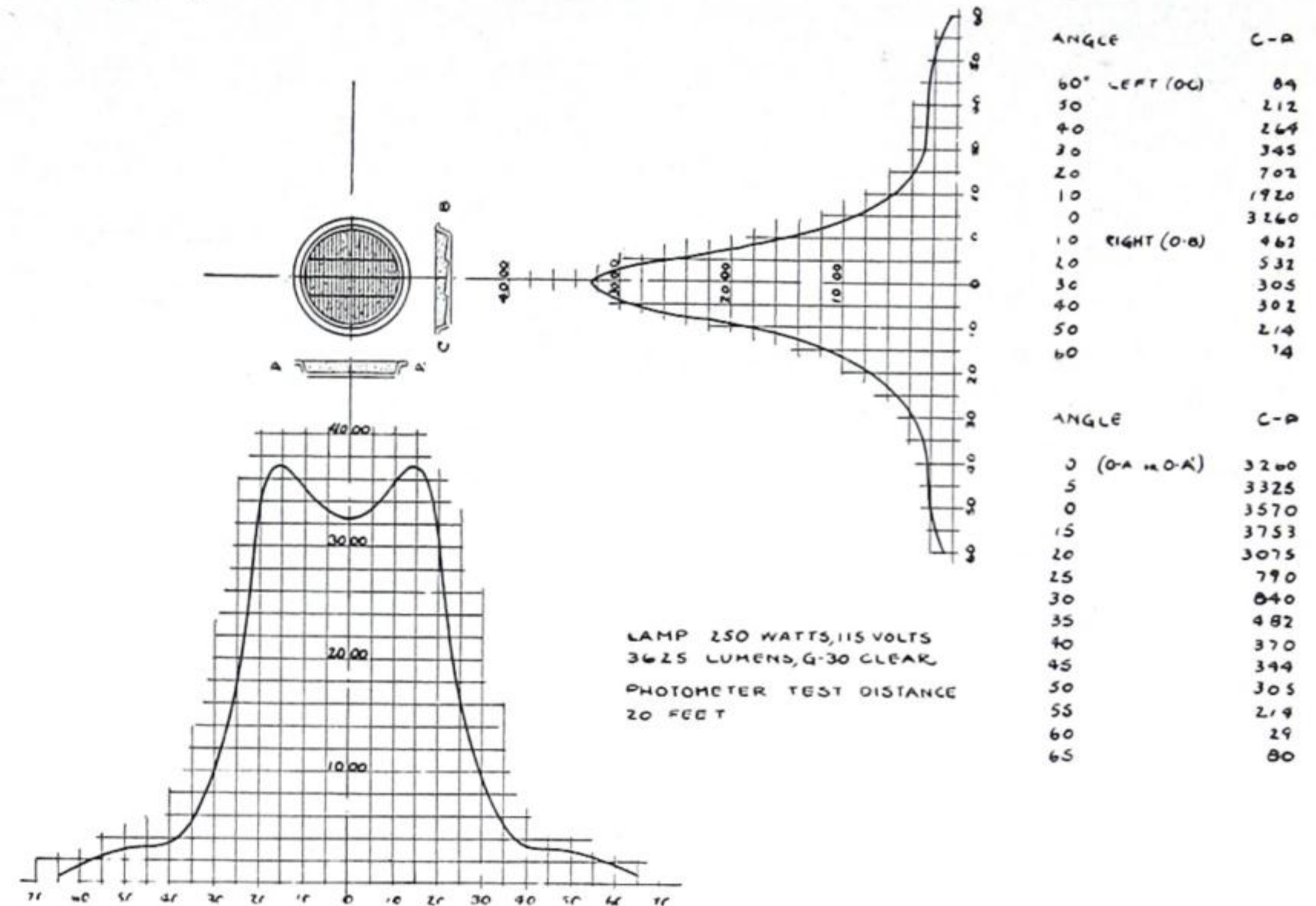


Above—
Light Distribution—
Stippled Cover Glass
At Left—
Light Distribution—
No Cover Glass

DIOPTRIC (Pie Plate Shape) COVER GLASS

This is a special heat resisting cover glass for use with FLC-103, FLC-103-A, FLC-104, FLC-104-A Floodlights. It serves a very distinctive and unique purpose in that it converts the usual conical beam from the floodlight into a flattened and tilted beam to permit wider spacing of the floodlights when placed close to a vertical surface and yet to give uniform distribution without a scalloping effect.

Herewith is shown the light distribution as it is spread out laterally parallel with the surface to be lighted and also the distribution in the plane perpendicular to the surface to be lighted. It will be noted that in the plane perpendicular to the surface the beam is tilted toward the vertical surface, thus permitting the floodlight to be set vertically close to the surface. With the floodlight 12" from the vertical surface to be illuminated, the spacing may be as much as 36" on centers without scalloping effect.



FLC-103. Light Distribution—Dioptric Cover Glass



Sportland Building, Kennywood Park, Pittsburgh, Pa.

Pylons are lighted by Permaflector FLC-Type Floodlights.
Recessed Permaflectors light booths and marquee.



PITTSBURGH PERMAFLECTOR FLOODLIGHTS

NOS. AL-10 AND AL-11 SERIES

Since floodlighting equipment must be used out of doors, the first essential is that the floodlight case in which the lamp and Permaflector are enclosed be thoroughly weather-proof and capable of withstanding unfavorable atmospheric conditions without deterioration. The design, construction and materials used in Permaflector Floodlights equips them to render dependable service under all climatic conditions. They embody the following design features:

CASES AND DOOR FRAMES

Permaflector Floodlight cases are seamless, one-piece castings. Floodlight cases and door frames are made of cast silicon aluminum alloy (Navy Specifications) thus providing a light weight but strong and corrosion resisting unit.

The bow is made of steel channel, galvanized to provide adequate strength and to resist corrosion.

The clamping levers are of forged steel, finished in sprayed and baked aluminum and heavy enough to provide firm and secure clamping of the floodlight in the desired position.

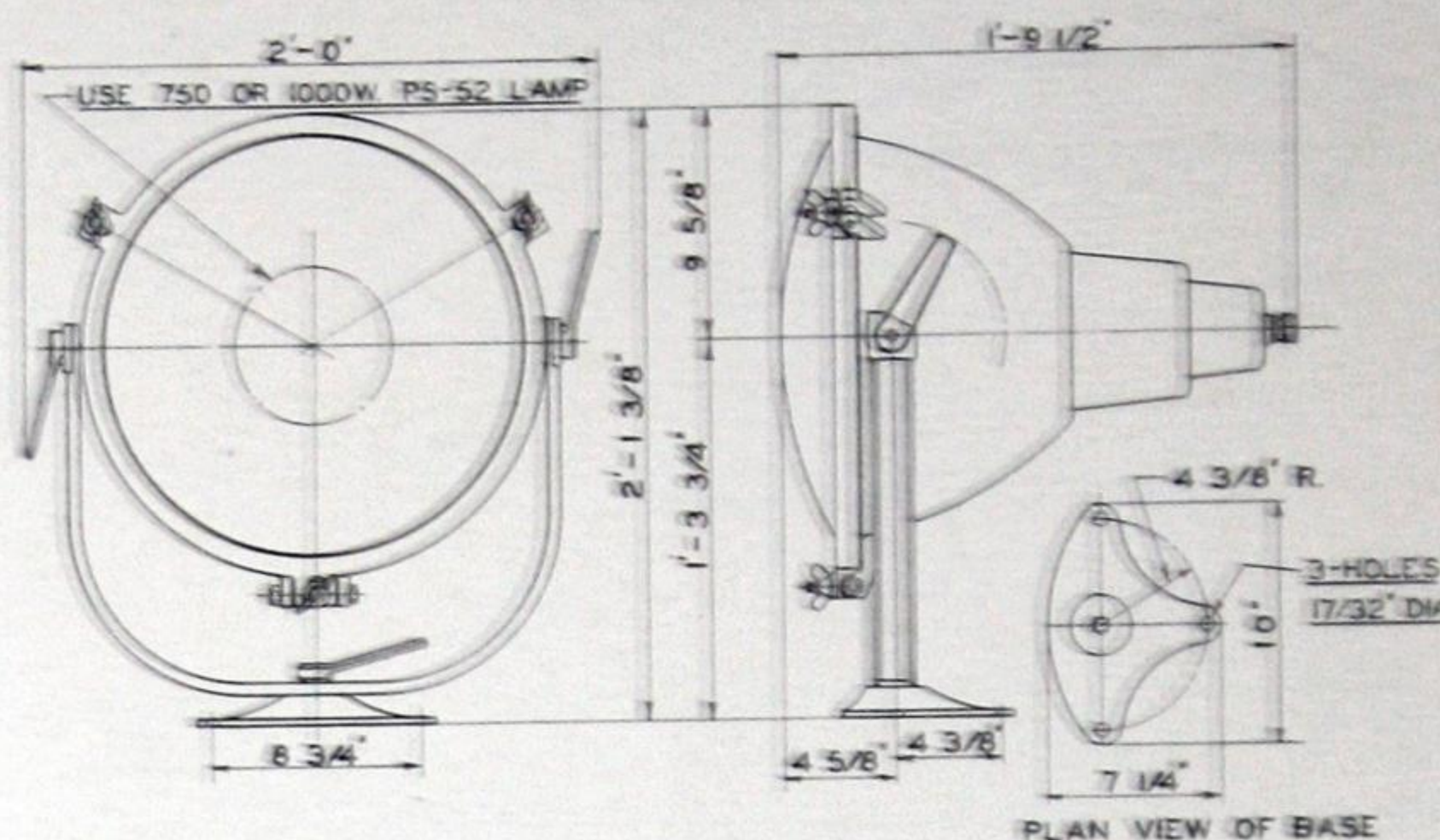
The fitting for the entrance of the wire into the floodlight casing is non-ferrous and gasketed with soft rubber bushing under pressure to make entrance water tight.

The wire is No. 14-2 conductor asbestos covered, rubber jacketed, 36 inches long.

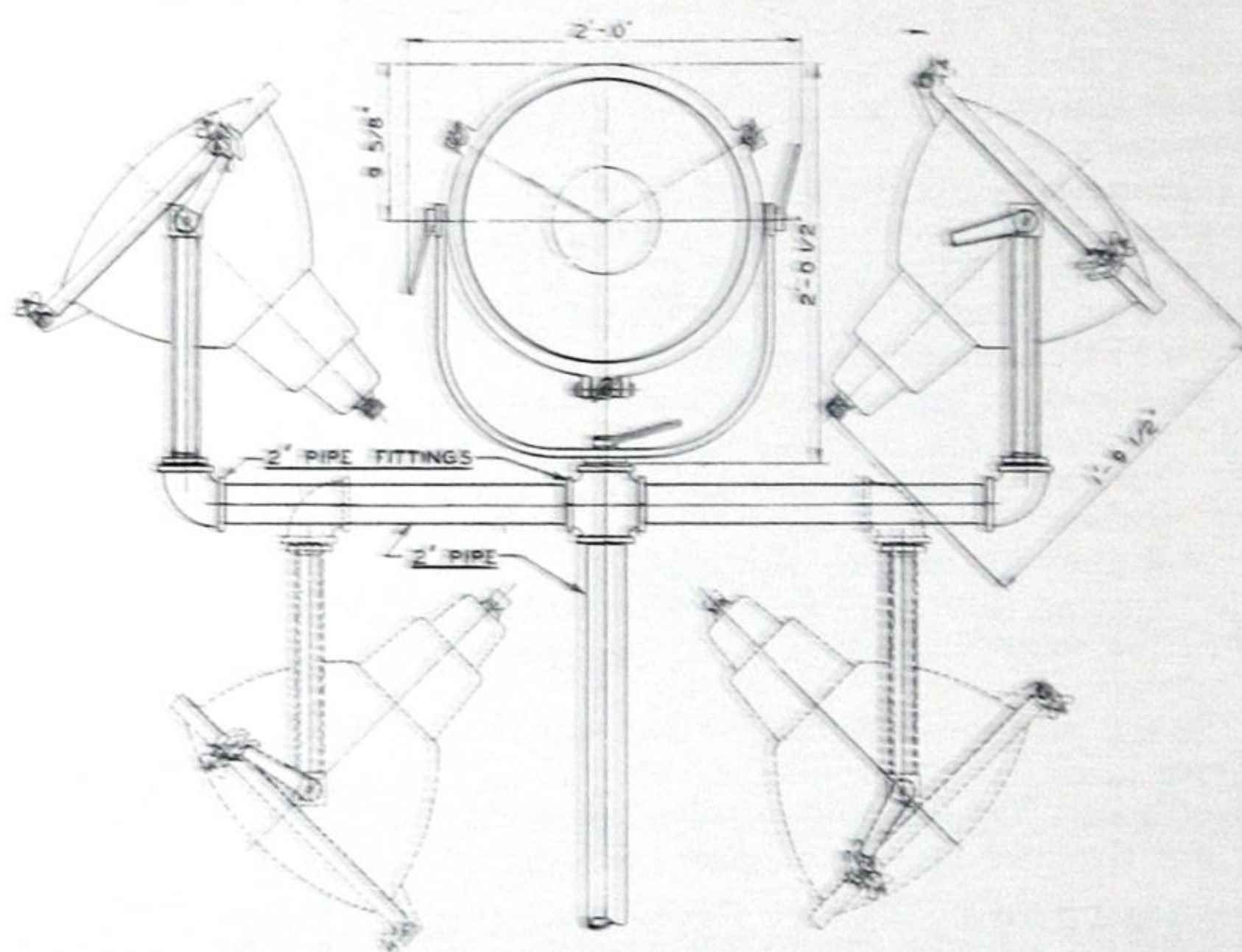
The mogul socket is of porcelain.

The other fittings such as eye bolts, wing nuts, washers, are non-corrosive bronze alloy.

Parts other than the cast aluminum portions are finished in sprayed and baked aluminum.



Floodlights No's AL-10, AL-11 Series
Base Mounting, Front and Side View



Floodlights No's AL-10, AL-11 Series
Pipe Mounting, Showing Various Possible Mounting Positions

FIXED FOCUS

These are fixed focus floodlights for industrial and commercial use. Repeated focusing or adjustment is not required. For industrial and commercial service fine focal adjustment is not necessary.

COVER GLASSES

Permaflector Floodlights are equipped with convex heat resisting cover glasses, capable of withstanding the high temperature of the lamps under any weather condition.

Cover glasses are available in clear, smooth glass or stippled on the inside. The use of a stippled cover glass has the advantage of smoothing out the field of light; also causes a spreading of the beam. Cover glasses provided with straight parallel half-round ribs or flutes on the inside, which spread the beam rectangularly, are also available. This cover glass may be turned so that the flutes are in vertical or horizontal positions which changes the beam accordingly.

PERMAFLECTORS PROVIDE THE REFLECTING MEDIUM

In order to secure light control, from extreme concentration to extra broad spread, it is essential that floodlights be equipped with reflectors capable of securing these results. All Permaflexor Floodlights are equipped with Permaflexors, the silver plated glass reflectors with the permanent efficiency of appropriate design for the particular service for which the floodlight is intended.

MOUNTING

Permaflexor Floodlights are available with a base for base mounting or a special flanged bushing for pole mounting.

The base is of cast malleable iron shaped as illustrated in line sketch shown above and contains three tapped holes for mounting on flat surfaces.

The special cast malleable iron 2" male flanged bushing for pole mounting is threaded and screws into standard 2" pipe coupling, elbow, or other similar pipe fittings; it is illustrated in line sketch of pole mounting shown above.

DETERMINING THE NUMBER OF FLOODLIGHTS REQUIRED

To determine the number of floodlights which will produce the required level of illumination use the following formula:

$$\text{Formula 1: Number of floodlights} = \frac{(\text{Area} \times \text{Foot-candles})}{0.7 \times (\text{Beam Lumens})}$$

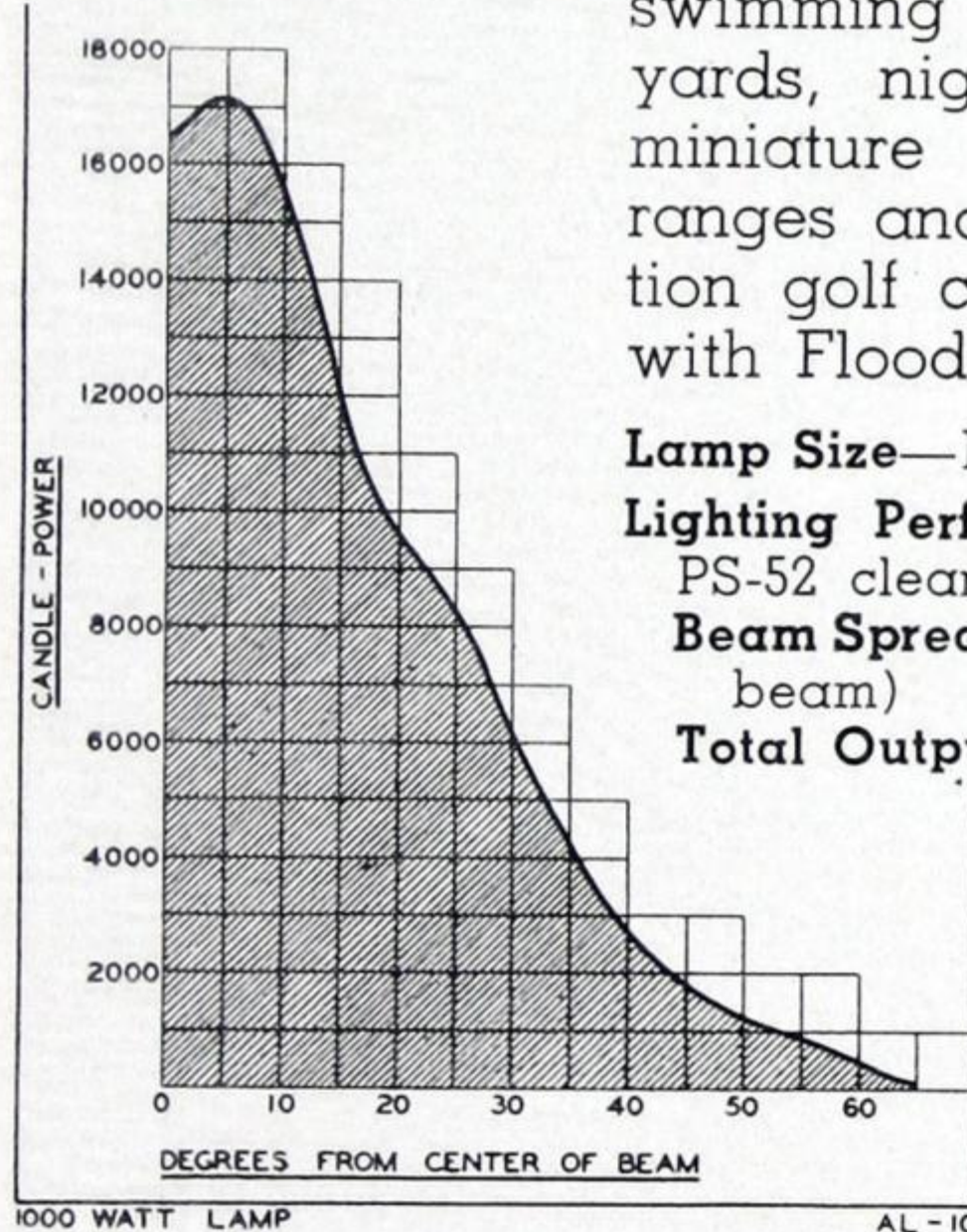
In this formula the area, of course, is the area of the surface to be lighted in square feet; the footcandles represent the intensity ultimately desired; 0.7 represents a depreciation factor, making allowance for normal depreciation; beam lumens may be selected from descriptive copy applying to the particular floodlight to be employed.

PERMAFLECTOR FLOODLIGHTS



FLOODLIGHT NO. AL-10 SERIES

Application—For floodlighting service requiring a broad beam of light. Particularly serviceable for gasoline service stations, amusement parks, automobile parking and used car lots, recreational areas, swimming pools, industrial plant yards, night construction work, miniature golf courses, driving ranges and three par or regulation golf courses in combination with Floodlight No. AL-11 Series.



1000 WATT LAMP

AL-10

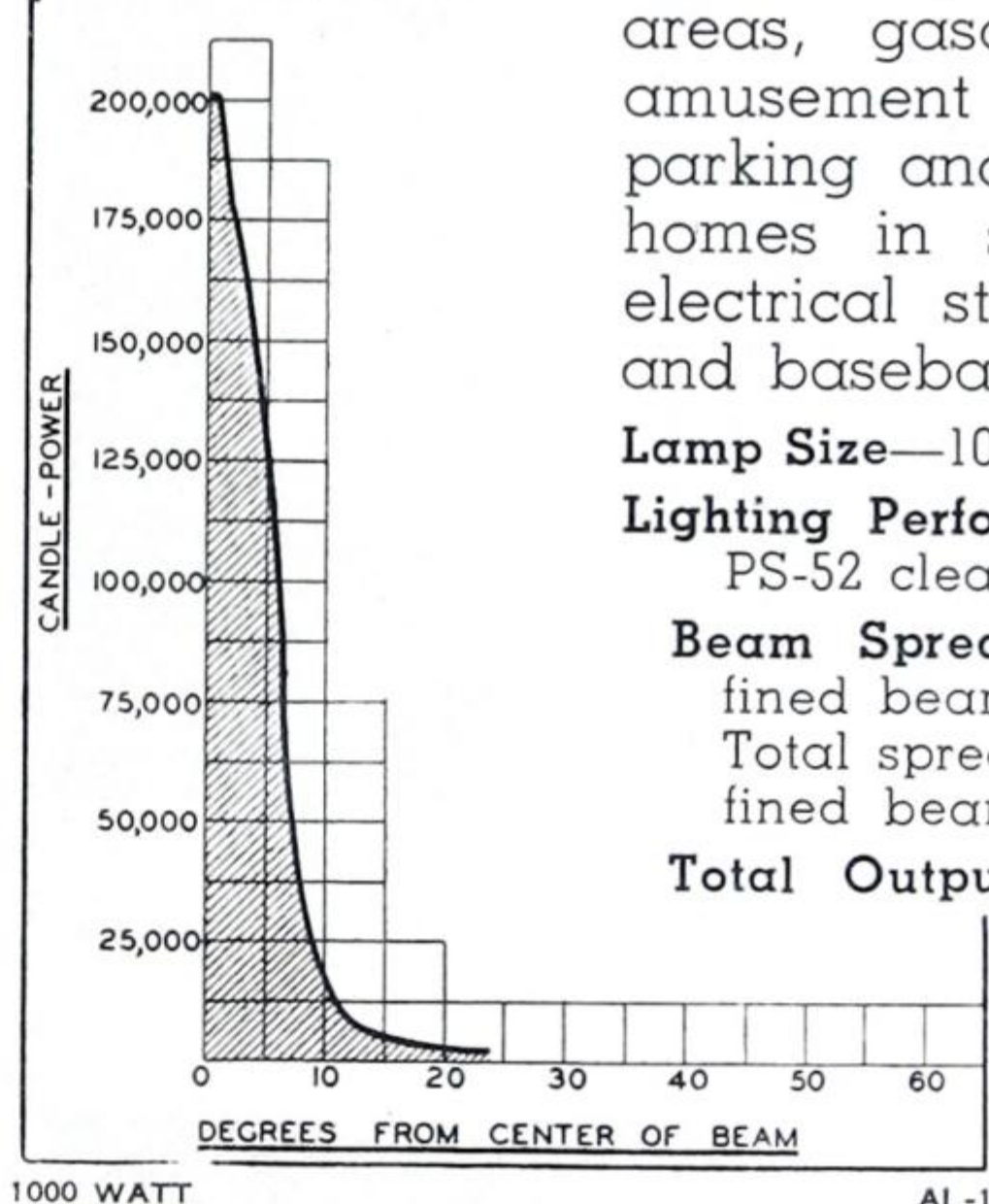
Light Distribution—AL-10 Series
Without Cover Glass

Lamp Size—1000 watt or 750 watt PS-52.
Lighting Performance—using 1000 watt PS-52 clear lamp.
Beam Spread—170 degrees (no defined beam)
Total Output—14,000 Lumens



FLOODLIGHT NO. AL-11 SERIES

Application—Particularly for long range service, as illuminating of buildings 150 feet distant or more. When equipped with inside stippled or spread type cover glass, this unit is very useful for recreational areas, gasoline filling stations, amusement parks, automobile parking and used car lots, new homes in subdivisions, outdoor electrical stations, football fields and baseball fields.



1000 WATT

AL-11

Light Distribution—AL-11 Series
Without Cover Glass

Lamp Size—1000 watt or 750 watt PS-52.
Lighting Performance—using 1000 watt PS-52 clear lamp.
Beam Spread—19.6 degrees (a defined beam).
Total spread of light (including defined beam) is 120 degrees.
Total Output—7,800 lumens in 19.6 degrees defined beam. 16,000 lumens including 19.6 degrees defined beam.

Catalog No.	Type of Mounting	Type of Cover Glass	Permaflector	Standard Quantity	Net Weight Approx. lbs.	Shipping Weight Approx. lbs.	Retail Price Each	Code
AL-10	Base	Stippled	I-1005-GO	1	43	59	\$85.00	ALTEN
AL-10-F	Pipe	Stippled	I-1005-GO	1	40	56	83.75	ALTEF
AL-11	Base	Stippled	F-1001	1	42	57	85.00	ALEVE
AL-11-C	Base	Clear	F-1001	1	42	57	85.00	ALECE
AL-11-S	Base	Spread	F-1001	1	42	57	85.00	ALES
AL-11-F	Pipe	Stippled	F-1001	1	39	54	83.75	ALEFE
AL-11-CF	Pipe	Clear	F-1001	1	39	54	83.75	ALCEF
AL-11-SF	Pipe	Spread	F-1001	1	39	54	83.75	ALEFS



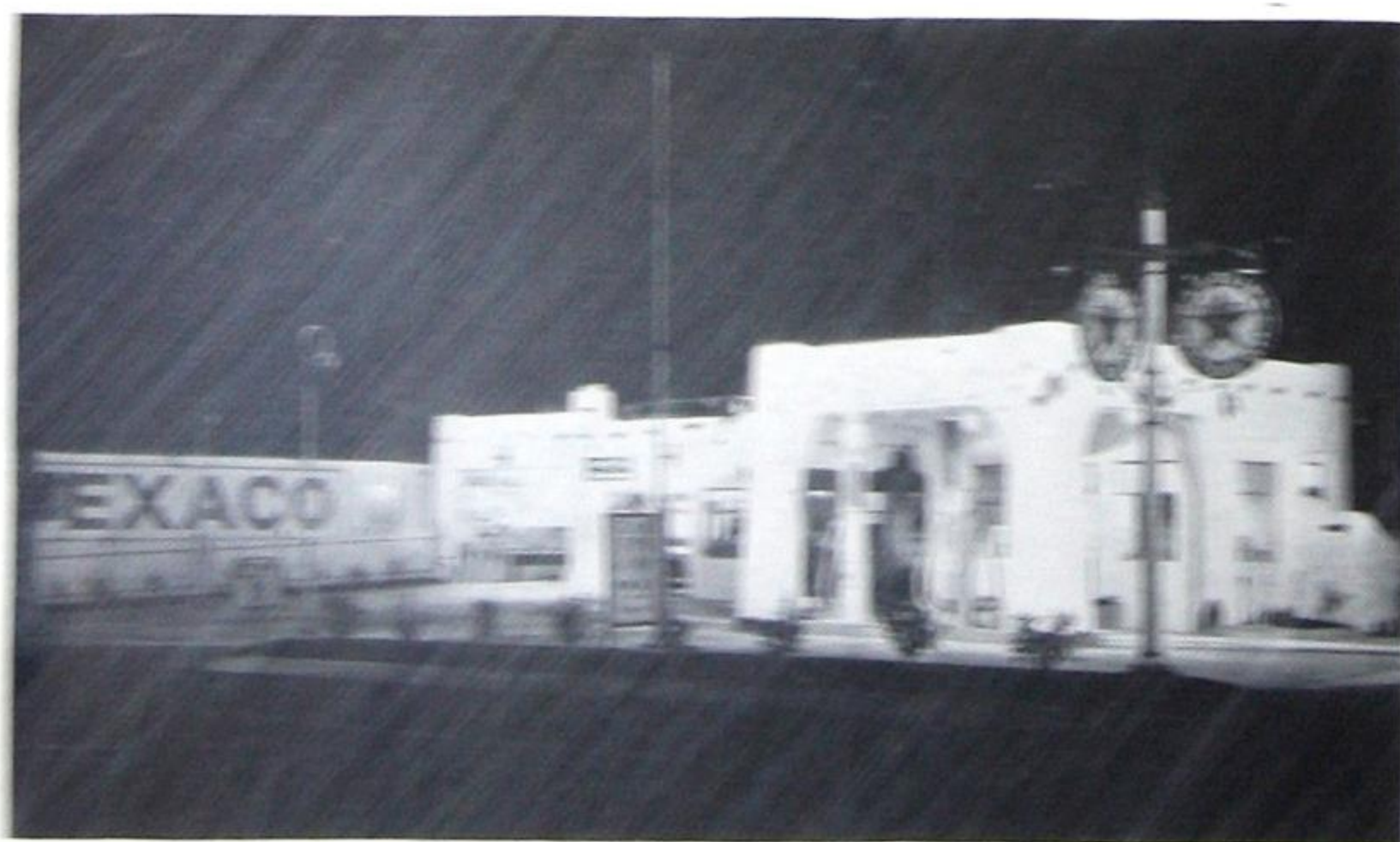
PERMAFLECTOR INSTALLATIONS



Permaflexor Floodlights, properly installed, turn night into day on construction projects of all kinds, thereby increasing safety, production and providing protection from sabotage. The above job was lighted by 40 Permaflexor Floodlights of 1000 watt size.



Power plants must be protected and safety provided for the workmen. Two 1000 watt Permaflexor Floodlights illuminate the above Sub-Station.



Floodlighting automobile service stations to increase sales of gas, oil and service is only one of the hundreds of various commercial applications of Permaflexor Floodlights.



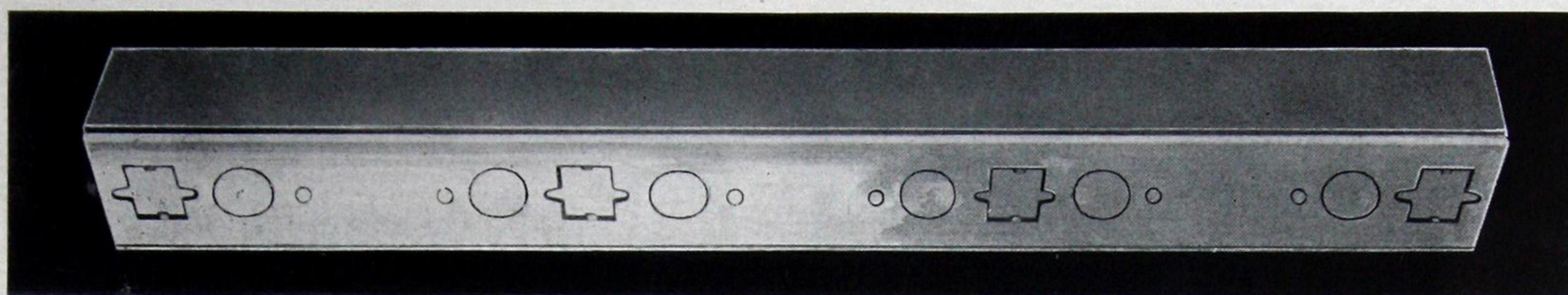
The Miami Daily News Building was lighted by 72 Permaflexor Floodlights No. FLC-100-A, installed under the direction of William Ordway, Building Superintendent.



PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA

"PITTSBURGH" FLUORESCENT EQUIPMENT

(For Complete Information on Permaflexor Fluorescent Luminaires Write for Separate Catalog)



(Part of standard section of No. KO-41 showing socket knockouts spaced 6 inches on centers with $\frac{3}{4}$ inch ends and starter knockouts placed on each side of socket knockout)

KNOCKOUT STRIP NO. KO-41

Knockout Strip KO-41 accommodates the FS Lamp Starter and combination lamp holder and starter sockets; also all lamp ballasts of the single-lamp type and all of the two-lamp ballasts except the "High Power-Factor Tulamp" type. KO-41 is constructed of 20 gauge galvanized steel. It consists of two U-Shaped members, the face and the back, which telescope together. Inside dimensions are $2\frac{1}{8}$ inches by $1\frac{5}{8}$ inches. Attractive finish is sprayed and baked aluminum. Double-socket knockouts accommodating two lamp sockets back-to-back are spaced 6 inches on centers which is a com-

mon factor of eighteen, twenty-four, thirty-six and forty-eight inches (available fluorescent lamp lengths). Therefore, it is always possible to work out the necessary socket locations for the various lamps. Closely spaced $\frac{1}{4}$ inch knockouts provide for mounting of ballasts, capacitors, starting compensators and Flu-RE-Flectors. Knockouts for FS Starters are properly spaced each side of double socket knockouts. KO-41 is available in seven standard lengths for single lamp installations and series of lamps in line.

Standard Length	Lamp Size	Lamp Length	Standard Quantity	Weight Approx. Lbs.	Retail Price Each Length	CODE
19 $\frac{1}{2}$ "	15 Watt	18"	6	15	\$0.85	ONONE
25 $\frac{1}{2}$ "	20 Watt	24"	6	18	1.00	ONTWO
37 $\frac{1}{2}$ "	30 Watt	36"	6	28	1.40	ONTRE
49 $\frac{1}{2}$ "	40 Watt	48"	6	36	1.85	ONFOR
6'-1 $\frac{1}{2}$ "	Two 30 Watt	36"	6	56	2.80	ONSIK
8'-1 $\frac{1}{2}$ "	Two 40 Watt	48"	6	72	3.25	ONATE
9'-7 $\frac{1}{2}$ "	For Lamps in Line		6	88	3.70	ONANY

ADDITIONAL EQUIPMENT (For Use With No. KO-41)

End Caps No. KO-22.

U-Straps No. KO-23 or No. KO-43.

Knockout Covers No. KO-29.

Ballast Connectors No. KO-24.

Ballast Support Clamps No. KO-44.

Symmetric Flu-RE-Flectors:

No. KO-55-S for 15 Watt 18" Lamp.

No. KO-56-S for 20 Watt 24" Lamp.

No. KO-57-S for 30 Watt 36" Lamp.

No. KO-58-S for 40 Watt 48" Lamp.

Asymmetric Flu-RE-Flectors:

No. KO-55-A for 15 Watt 18" Lamp.

No. KO-56-A for 20 Watt 24" Lamp.

No. KO-57-A for 30 Watt 36" Lamp.

No. KO-58-A for 40 Watt 48" Lamp.

Reflector Ends.

No. KO-60-S for Symmetric Flu-RE-Flector.

No. KO-60-A for Asymmetric Flu-RE-Flector.

Reflector Connectors:

No. KO-59-S for Symmetric Flu-RE-Flector.

No. KO-59-A for Asymmetric Flu-RE-Flector.

KNOCKOUT STRIP NO. KO-51

Knockout Strip No. KO-51 is constructed the same as KO-41 except that inside dimensions are larger, $3\frac{5}{8}$ " wide by 3"

high. It accommodates the "High Power-Factor Tulamp Type Ballast." KO-51 is available in three standard lengths.

Standard Length	Lamp Size	Lamp Length	Standard Quantity	Weight Approx. Lbs.	Retail Price Each Length	CODE
6'-1 $\frac{1}{2}$ "	Two 30 Watt	36"	4	60	\$3.70	TUTRE
8'-1 $\frac{1}{2}$ "	Two 40 Watt	48"	4	80	4.65	TUFOR
9'-7 $\frac{1}{2}$ "	For Lamps in Line		4	102	5.50	TUANY

ADDITIONAL EQUIPMENT (For Use With No. KO-51)

End Caps No. KO-52.

U-Strap No. KO-53.

Knockout Covers No. KO-29.

Ballast Connectors No. KO-54.

Ballast Support Clamps No. KO-64.

Symmetric Flu-RE-Flectors:

No. KO-55-S for 15 Watt 18" Lamp.

No. KO-56-S for 20 Watt 24" Lamp.

No. KO-57-S for 30 Watt 36" Lamp.

No. KO-58-S for 40 Watt 48" Lamp.

Asymmetric Flu-RE-Flectors:

No. KO-55-A for 15 Watt 18" Lamp.

No. KO-56-A for 20 Watt 24" Lamp.

No. KO-57-A for 30 Watt 36" Lamp.

No. KO-58-A for 40 Watt 48" Lamp.

Reflector Ends.

No. KO-60-S for Symmetric Flu-RE-Flector.

No. KO-60-A for Asymmetric Flu-RE-Flector.

Reflector Connectors:

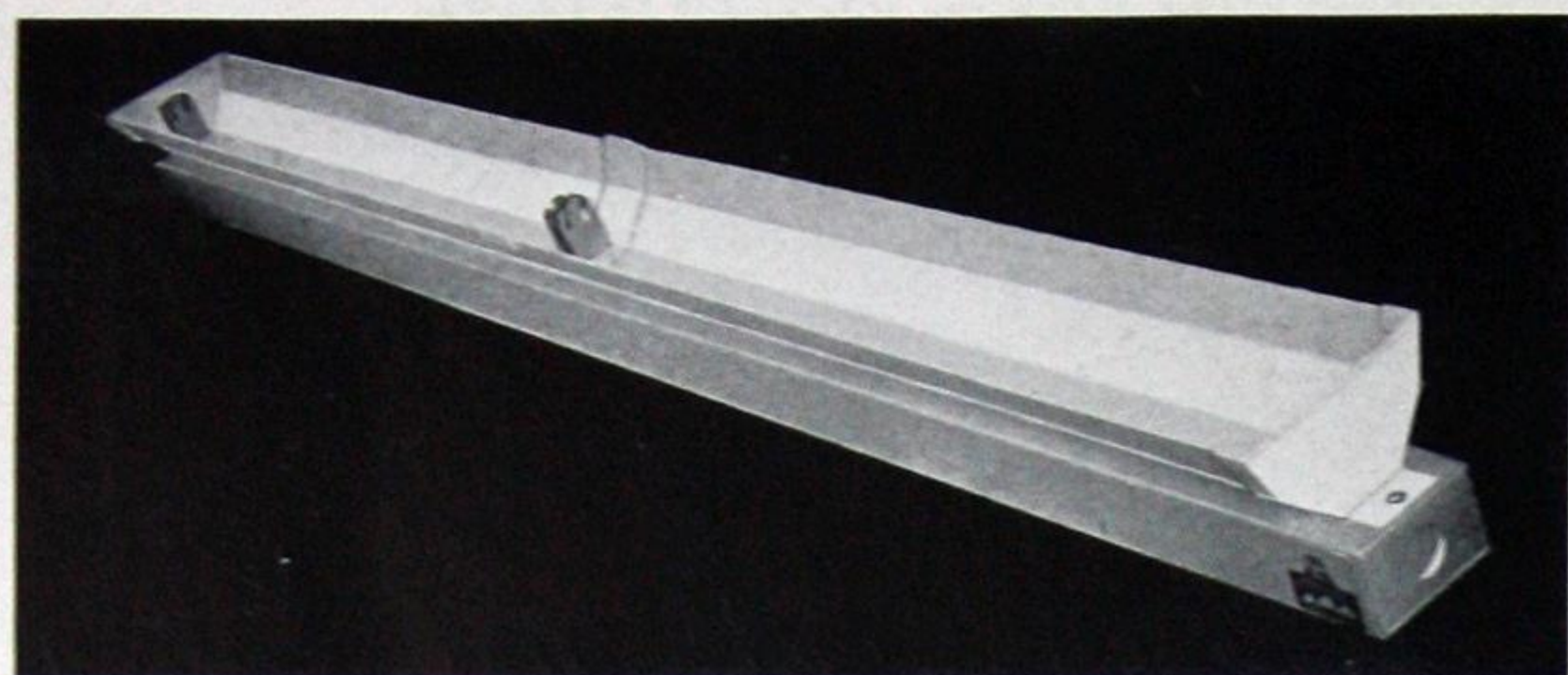
No. KO-59-S for Symmetric Flu-RE-Flector.

No. KO-59-A for Asymmetric Flu-RE-Flector.

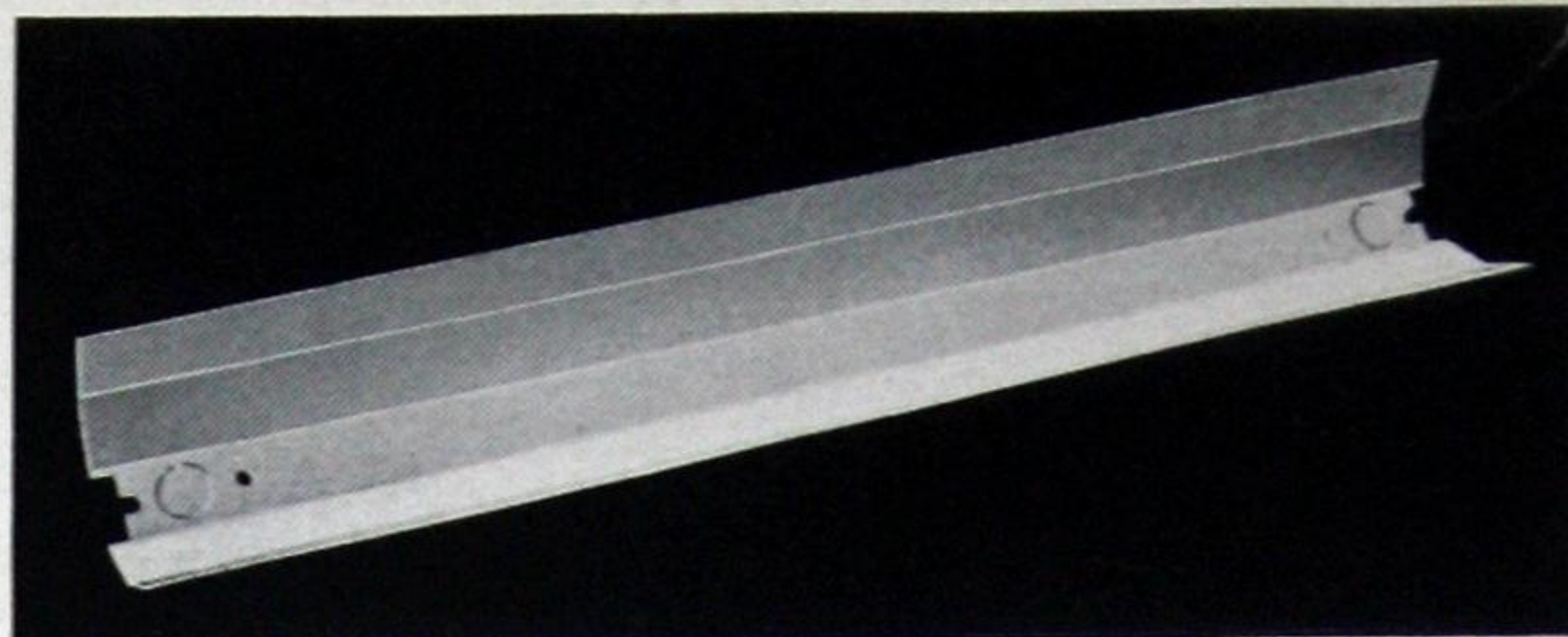
NOTE: Pittsburgh Reflector Company does not furnish the fluorescent lamps, sockets, ballasts, capacitors, starting compensators, and starters. These items may be purchased from your electrical wholesaler along with the Pittsburgh Fluorescent Equipment required for each installation.



PITTSBURGH FLUORESCENT EQUIPMENT



(Flu-RE-Flectors Mounted on KO-41)



(Flu-RE-Flector No. KO-55-S)

FLU-RE-FLECTORS

Pittsburgh Flu-RE-Flectors are trough reflectors shaped as shown, made of steel with white baked-on, heat-resisting enamel finish.

For symmetric distribution knockouts are placed in center face of reflector. For asymmetric distribution knockouts are placed in side face of reflector. Since each reflector contains only one set of knockouts it may be fastened only in one position. Therefore, when ordering specify either the "S" type for symmetric position or "A" type for asymmetric position.

Single socket knockouts in ends of Flu-RE-Flectors accommodate a single socket and extend the reflector to full length

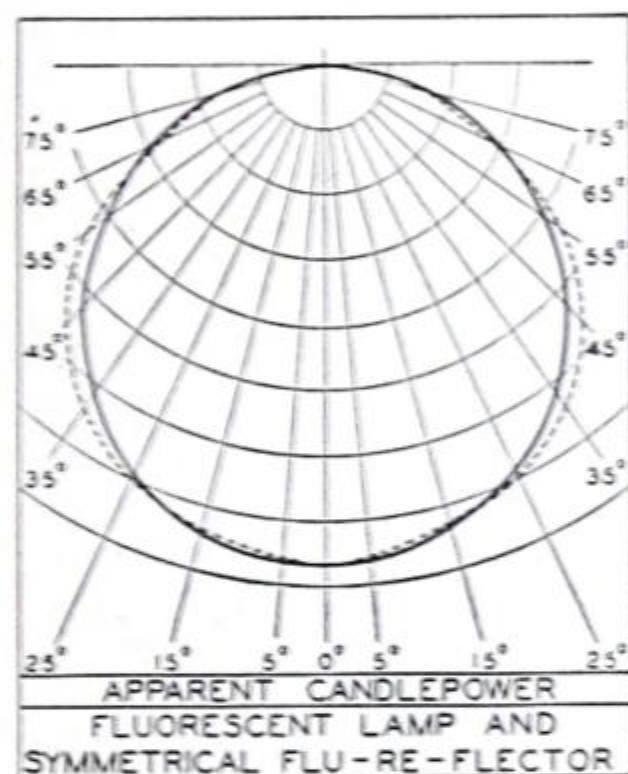
of lamp and socket. To attach the reflector to face of KO-41 and KO-51 specially designed oversize screws are furnished which are inserted in 1/4" knockouts in face of KO Strip. These screws cut their own threads in KO Strip and when tightened draw up reflector firmly and securely against face of KO Strip. This operation may be executed after the KO Strip has been wired, assembled and installed. Each Flu-RE-Flector may be used singly for single lamp installations. For a series of lamps in line the gap between adjacent reflectors is filled in by No. KO-59-S (Reflector Connector) for symmetric position and No. KO-59-A (Reflector Connector) for asymmetric position of reflector.

SYMMETRIC FLU-RE-FLECTORS

Catalog No.	Lamp Size	Lamp Length	Standard Quantity	Weight Approx. Lbs.	Retail Price Each	CODE
KO-55-S	15 Watt	18"	10	13	\$0.95	KOFIFIS
KO-56-S	20 Watt	24"	10	15	1.25	KOFISS
KO-57-S	30 Watt	36"	10	25	1.50	KOFSETS
KO-58-S	40 Watt	48"	10	33	1.80	KOFATES

ASYMMETRIC FLU-RE-FLECTORS

Catalog No.	Lamp Size	Lamp Length	Standard Quantity	Weight Approx. Lbs.	Retail Price Each	CODE
KO-55-A	15 Watt	18"	10	13	\$0.95	KOFIFA
KO-56-A	20 Watt	24"	10	15	1.25	KOFISA
KO-57-A	30 Watt	36"	10	25	1.50	KOFSETA
KO-58-A	40 Watt	48"	10	33	1.80	KOFATA



(Characteristic light distribution of Flu-RE-Flector and fluorescent lamp — symmetric position).

Solid Line — plane of lamp axis.
Dotted Line — plane perpendicular to lamp axis.

REFLECTOR END NO. KO-60-S

(For Symmetric Flu-RE-Flectors)



(Flu-RE-Flector End's No's. KO-60-A, KO-60-S)

Standard Quantity—10
Retail Price, Each.....\$0.30
Code.....KOSIXS

Reflector End No. KO-60-S is designed to fit snugly and neatly over the ends of the Flu-RE-Flector. End Cap screw inserted through hole in extended edge holds reflector end in position.

KO-60-S is for use with all full-length Flu-RE-Flectors mounted on KO-41 or KO-51 in symmetric position.

Weight, Approx. 1 lb.

REFLECTOR END NO. KO-60-A

(For Asymmetric Flu-RE-Flectors)

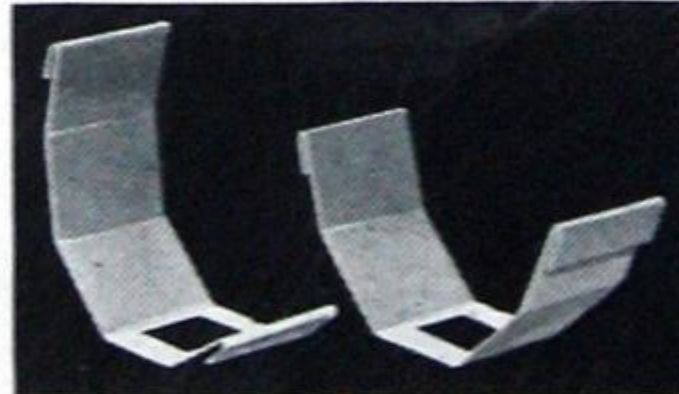
Same as Reflector End No. KO-60-A except it is for use only with asymmetric Flu-RE-Flectors.

Standard Quantity—10
Retail Price, Each.....\$0.30
Code.....KOSIKA

Weight, Approx. 1 lb.

REFLECTOR CONNECTOR NO. KO-59-S

(For Symmetric Flu-RE-Flectors)



(Flu-RE-Flector Connectors No's. KO-59-A, KO-59-S)

No. KO-59-S Reflector Connector is used to join adjacent sections of KO-55-S, KO-56-S, KO-57-S or KO-58-S reflectors mounted on KO-41 or KO-51 in symmetric position.

Standard Quantity—10
Weight, Approx. 4 lbs.
Retail Price, Each.....\$0.30
Code.....KOFNIS

REFLECTOR CONNECTOR NO. KO-59-A

(For Asymmetric Flu-RE-Flectors)

No. KO-59-A is used to join adjacent sections of KO-55-A, KO-56-A, KO-57-A or KO-58-A reflectors mounted on KO-41 or KO-51 in asymmetric position.

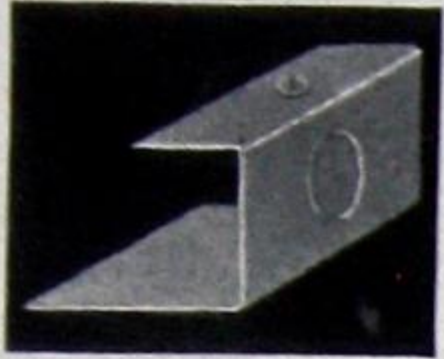
Standard Quantity—10
Weight, Approx. 4 lbs.
Retail Price, Each.....\$0.30
Code.....KOFNIA



PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA

PITTSBURGH FLUORESCENT EQUIPMENT

END CAP NO. KO-22



KO-22

End Cap No. KO-22 covers end of the KO-41 Knockout Strip and one-half of the last knockout at end, where only one socket will be used. End Cap KO-22 has standard 1/2" knockout in end face for service connection.

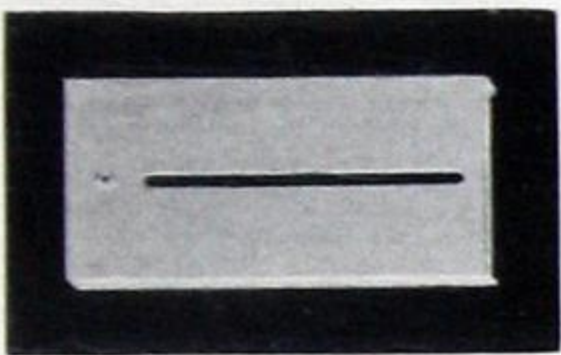
Standard Quantity—10 Weight, Approx. 1 3/4 lbs.
Retail Price, Each \$0.18
Code KOTUT

END CAP NO. KO-52

End Cap No. KO-52 is similar to KO-22 but is of larger size for use with Knockout Strip No. KO-51.

Standard Quantity—10 Weight, Approx. 4 lbs.
Retail Price, Each \$0.18
Code KOFTU

BALLAST CONNECTOR NO. KO-24



KO-24

Ballast Connector No. KO-24 saves time and labor of drilling extra holes by adapting the ballast regardless of length, to the standard 1/4 inch knockouts in KO-41.

KO-24 is equipped with a stud and nut which is attached to one end of the ballast. The elongated slot supplies the necessary adjustability for attaching to the nearest 1/4 inch knockout in the face of KO-41.

In addition to the stud and nut KO-24 is furnished with two machine screws and nuts in order to fasten the auxiliary at each end.

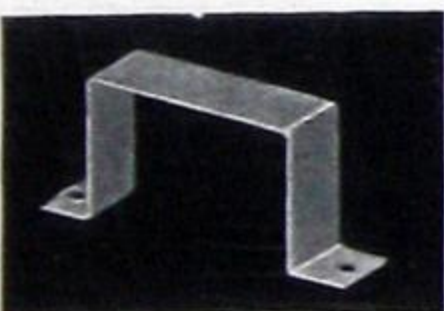
Standard Quantity—10 Weight, Approx. 1 3/4 lbs.
Retail Price, Each \$0.24
Code KOTFO

BALLAST CONNECTOR NO. KO-54

Ballast Connector KO-54 is similar to KO-24 but is of larger size to accommodate the "High Power-Factor Tulamp Type Ballast" for use in Knockout Strip No. KO-51.

Standard Quantity—10 Weight, Approx. 3 lbs.
Retail Price, Each \$0.30
Code KOFFO

U-STRAP NO. KO-23



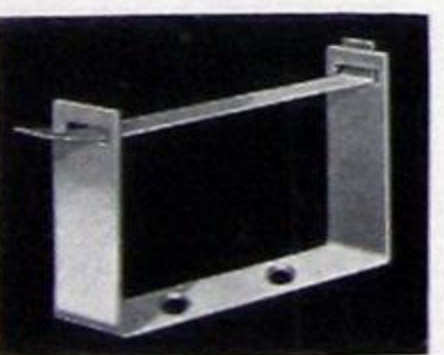
KO-23

No. KO-23 firmly supports Knockout Strip No. KO-41 on any flat, vertical or horizontal surface.

Standard Quantity—10
Weight, Approx. 1 lb.
Retail Price, Each \$0.12

Code KOTRE

U-STRAP NO. KO-43



KO-43

No. KO-43 performs same function as KO-23. New strip and slot method permits removal of KO-41 without removing screws or U-Strap from mounting surface.

Standard Quantity—10
Weight, Approx. 1 lb.
Retail Price, Each \$0.18

Code KOFTRE

U-STRAP NO. KO-53

U-strap No. KO-53 is similar to KO-43 but is of larger size for use with Knockout Strip No. KO-51.

Standard Quantity—10 Weight, Approx. 1 lb.
Retail Price, Each \$0.23
Code KOFIRE

KNOCKOUT COVER NO. KO-29

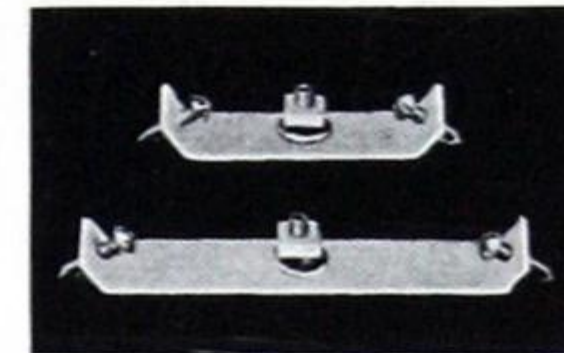


No. KO-29

Knockout Cover No. KO-29 consists of a flat metal plate of proper dimensions as shown to cover one-half of a knockout when only one socket is installed therein. It is not required at standard ends. It has a tapped hole and machine screw for fastening in place. KO-29 goes inside of KO-41 or KO-51 face against the socket and is drawn up tightly by means of a machine screw.

Standard Quantity—10 Weight, Approx. 10 oz.
Retail Price, Each \$0.09
Code KOTNIN

BALLAST SUPPORT CLAMP NO. KO-44

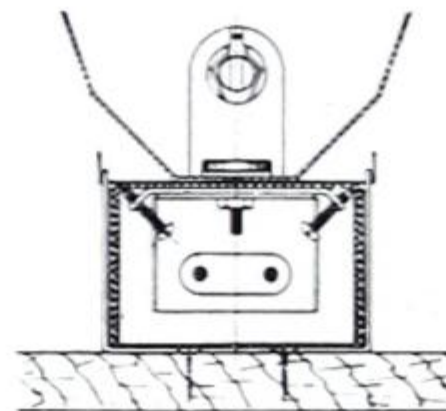


Ballast Support Clamps No's KO-44, KO-64

Ballast Support Clamp No. KO-44 is a shaped metal strip, designed as illustrated, containing two special screws and a stud and nut for attaching the ballast. The pressure of the two screws against the corners of the knockout strip draws the ballast up tightly against the face of the channel and holds the ballast firmly in position. This quick, simple method eliminates the use of holes or knockouts. KO-44 is for use only with Knockout Strip No. KO-41.

Standard Quantity—10 Weight, Approx. 1/2 lb.
Retail Price, Each \$0.18
Code KOFOFO

BALLAST SUPPORT CLAMP NO. KO-64

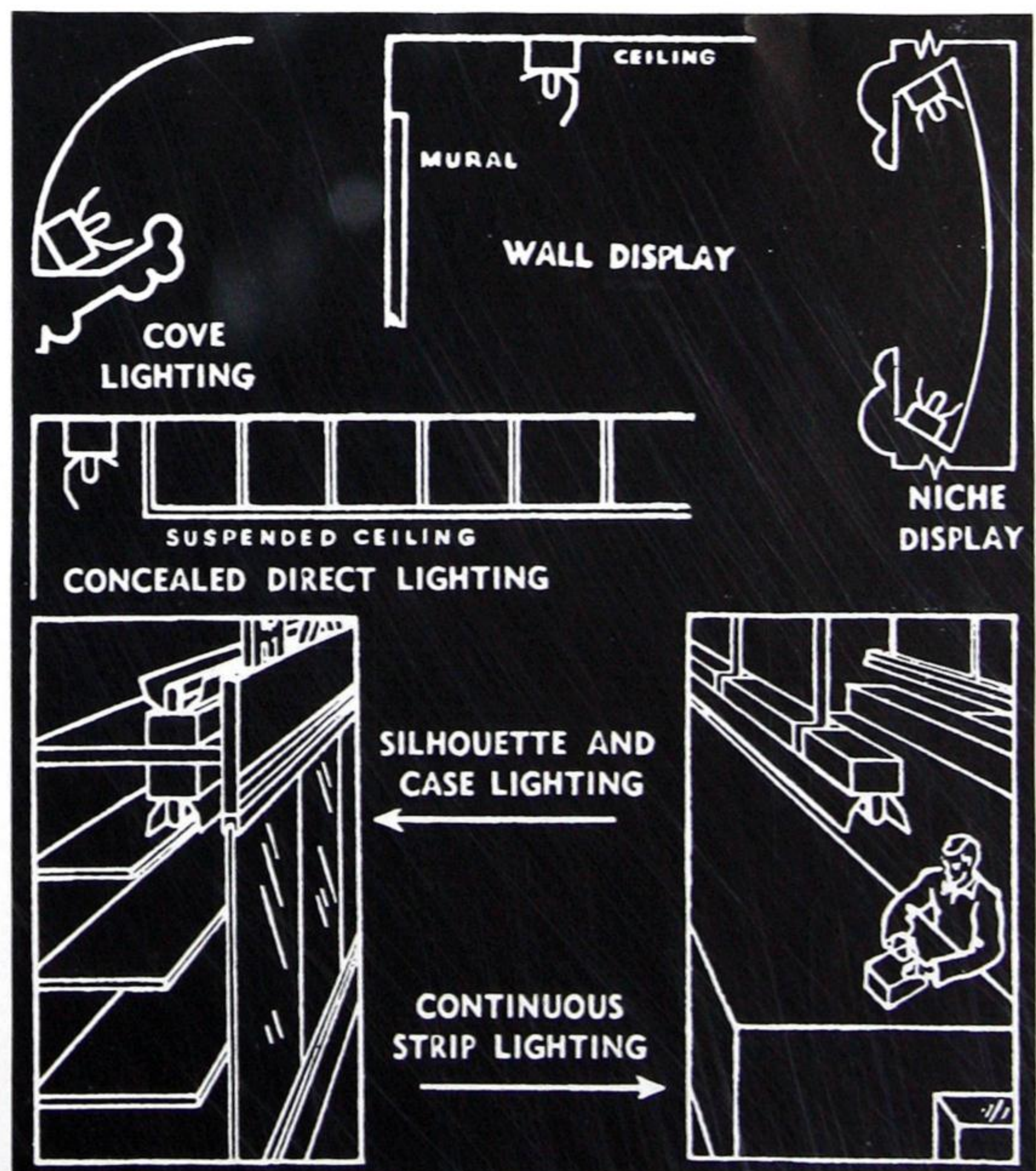


Ballast Support Clamps and Ballast Installed in KO-41

Ballast Support Clamp No. KO-64 is similar to KO-44 but is of larger size for use in Knockout Strip No. KO-51.

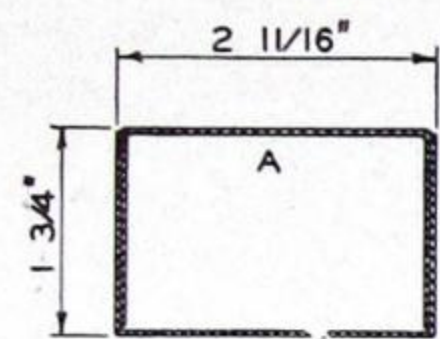
Standard Quantity—10
Weight, Approx. 1 lb.
Retail Price, Each \$0.18
Code KOSIFO

A FEW APPLICATIONS



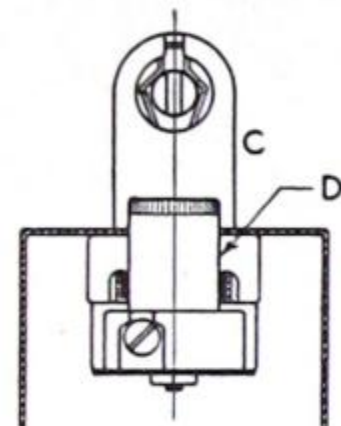
ASSEMBLING "PITTSBURGH" FLUORESCENT EQUIPMENT

NOTE: The same assembly procedure as shown here for Knockout Strip No. KO-41 is also used for Knockout Strip No. KO-51 (Mogul Size).



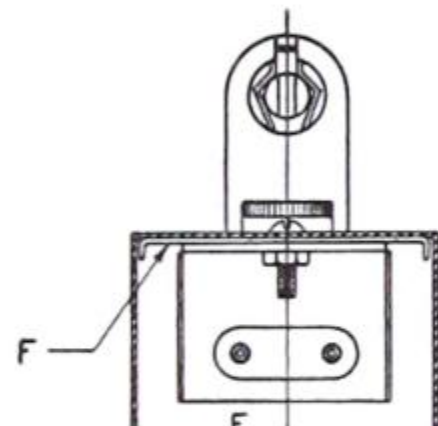
(Sketch 1)

Sketch 1—(A) represents face of knockout strip No. KO-41 which easily and snugly slides into back (B) completing a rectangular shaped metal duct in which wiring, auxiliaries, capacitors, sockets and starters are installed.



(Sketch 2)

Sketch 2—The back of KO-41 is removed during installation of starters, sockets, auxiliaries, U-straps, wiring and Flu-RE-Flectors. Lampholder and starter socket (C) is installed in knockout in face of KO-41 and fastened tightly in exact position with screw and nut. Starter (D) may then be inserted in starter socket through knockout in face of KO-41.



(Sketch 3)

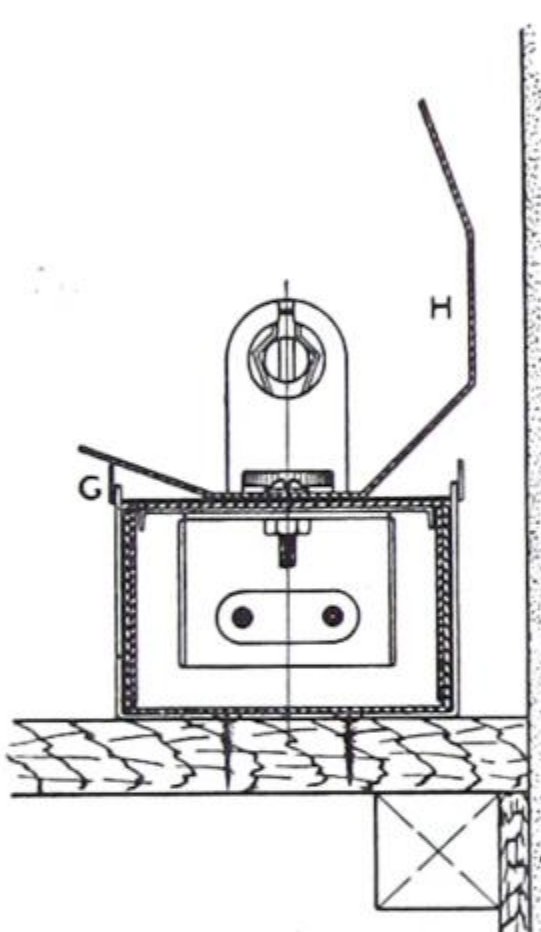
Sketch 3—Auxiliary (E) centered between sockets is attached to inside surface of face to KO-41 by means of Ballast Connector (F) or Ballast Support Clamp.

Sketch 4—Flu-RE-Flector (H) is placed over the face of KO-41 between sockets in asymmetric position and attached by means of special screws through $\frac{5}{16}$ " holes knocked out. Reflector Ends are slipped on ends of Flu-RE-Flector. After assembly is wired the back of KO-41 is then telescoped into position over the face and the assembly is completed by the addition of End Caps. U-Strap (G) is attached to mounting surface. The assembly is placed therein and metal strap inserted through slots of U-Strap and between reflector and face of KO-41.

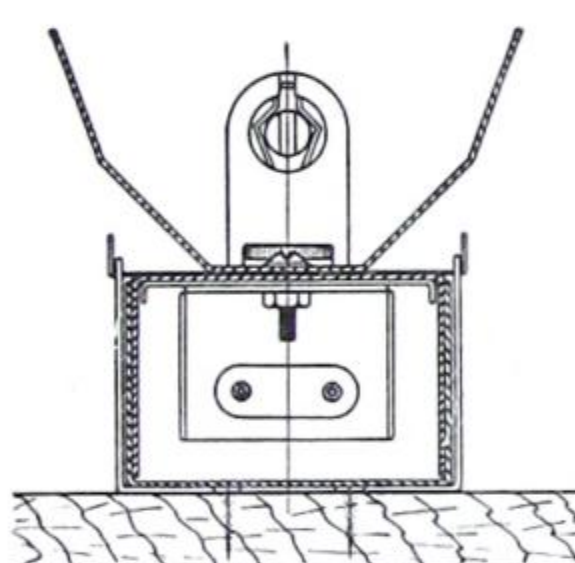
Sketch 5—Flu-RE-Flector mounted in symmetric position.

Sketch 6—Flu-RE-Flector mounted in symmetric position on Knockout Strip No. KO-51 (Mogul Size). Note larger size of KO-51 and position of new "High Power-Factor Tulamp Ballast" installed inside KO-51.

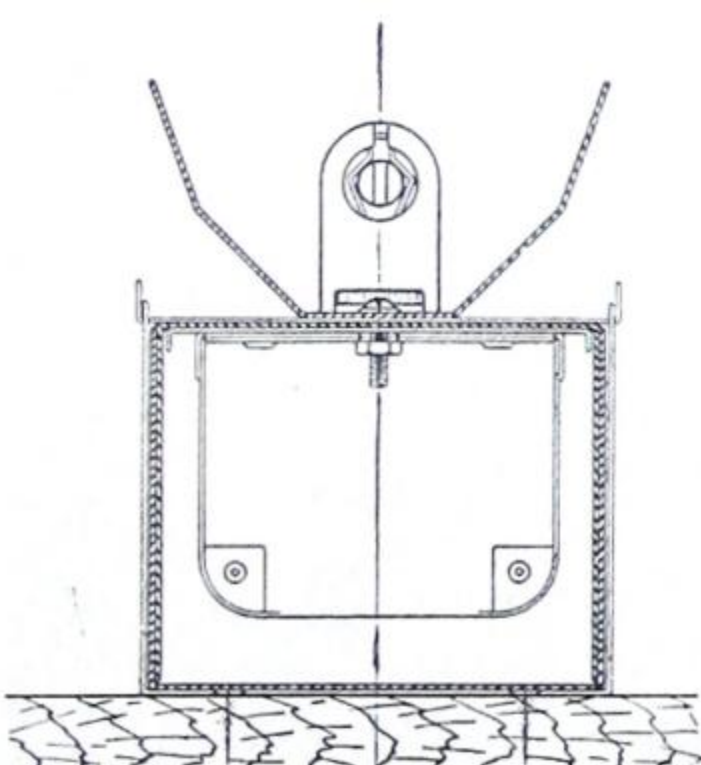
Sketch 7—Flu-RE-Flector mounted in asymmetric position on knockout Strip No. KO-51 (Mogul Size).



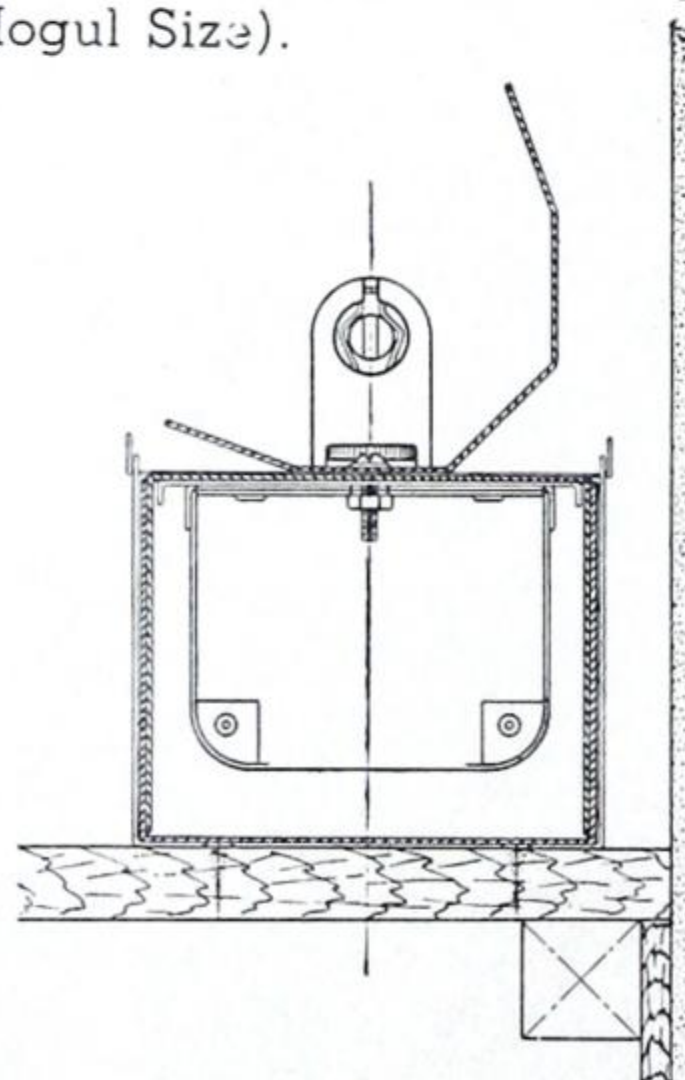
(Sketch 4)



(Sketch 5)



(Sketch No. 6)



(Sketch No. 7)

HOW TO JOIN SECTIONS OF KO-41 OR KO-51 STRIP FOR CONTINUOUS UNBROKEN LAMP INSTALLATIONS

Extra length of KO-41 or KO-51 Strip may be joined to a standard length by a few simple cuts. The desired extra length is measured from the end of the new section and the **face only** cut at that point. The back of the strip is cut some inches beyond the face cut which allows it to extend. The end of the standard length is cut in the opposite manner. That is, the **back only** is cut measuring the same as the extension of the back of the new section. In this manner, male and female ends are created which are easily and snugly joined to make a clean, neat joint.

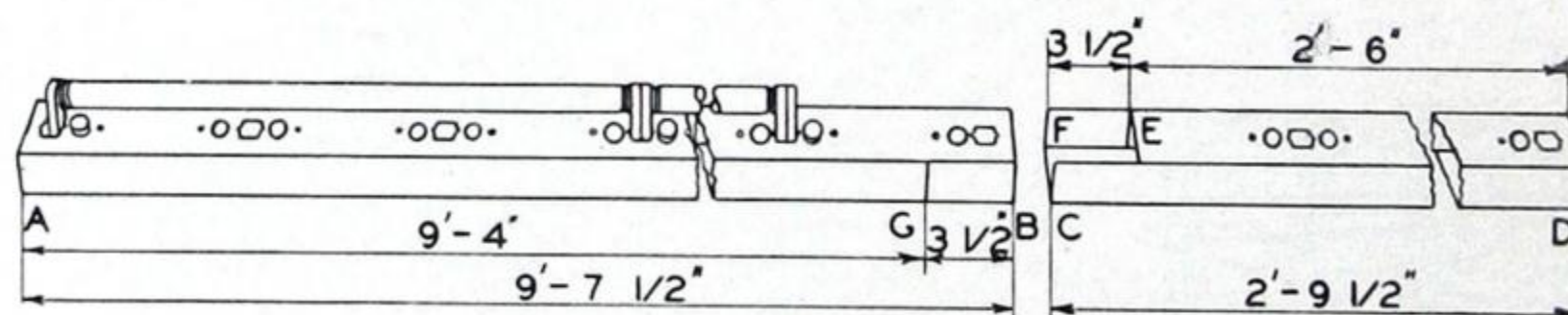
Dimension of cut to be made in the face of the new section is, of course, determined by the size and spacing of the lamps. Care must be exercised, so that after cutting and joining, the knockouts in the new section are spaced correctly for the additional lamps. The following actual problem demonstrates this method.

PROBLEM: Make a continuous unbroken installation of eight 18" lamps using standard lengths of KO-41 Strip.

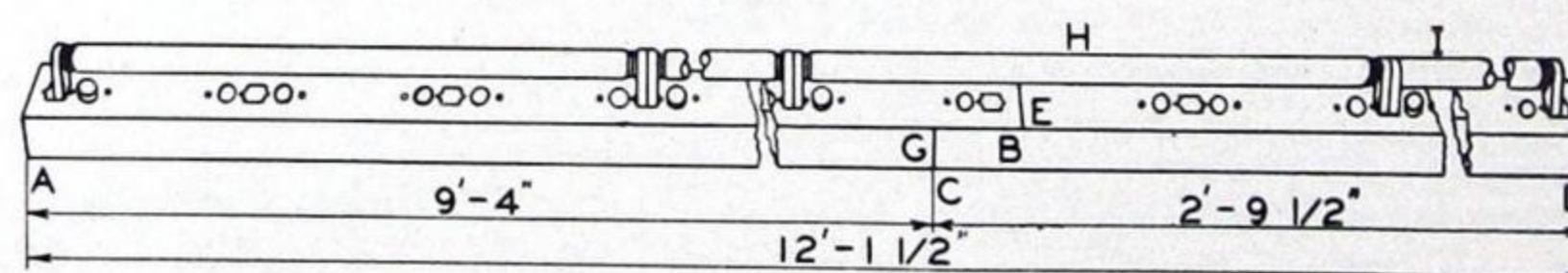
SOLUTION: Sketch 8—A to B represents a standard 9' 7 1/2" section of KO-41 Strip with six 18" lamps mounted; 6 3/4" remain of this standard length. Therefore, we need only 30" additional strip to accommodate the two additional lamps. We measure 30" from the end of the new length of KO Strip and cut the **face only** as shown at point E. **The KO Strip must be reversed so that the newly cut end is used for joining.** We then cut the **back** 3 1/2" (or 4" if desired) longer to point F which creates an extension or female end.

Standard length A to B is then furnished with a male end by cutting the **back only** 3 1/2" (or 4" if desired) shorter as shown.

Sketch 9—Standard Section A to B and New Section C to D simply slide together at E and G, completing the joint and additional lamps H and I are then accommodated. The new end is a standard end of KO-41 equipped with End Cap KO-22.



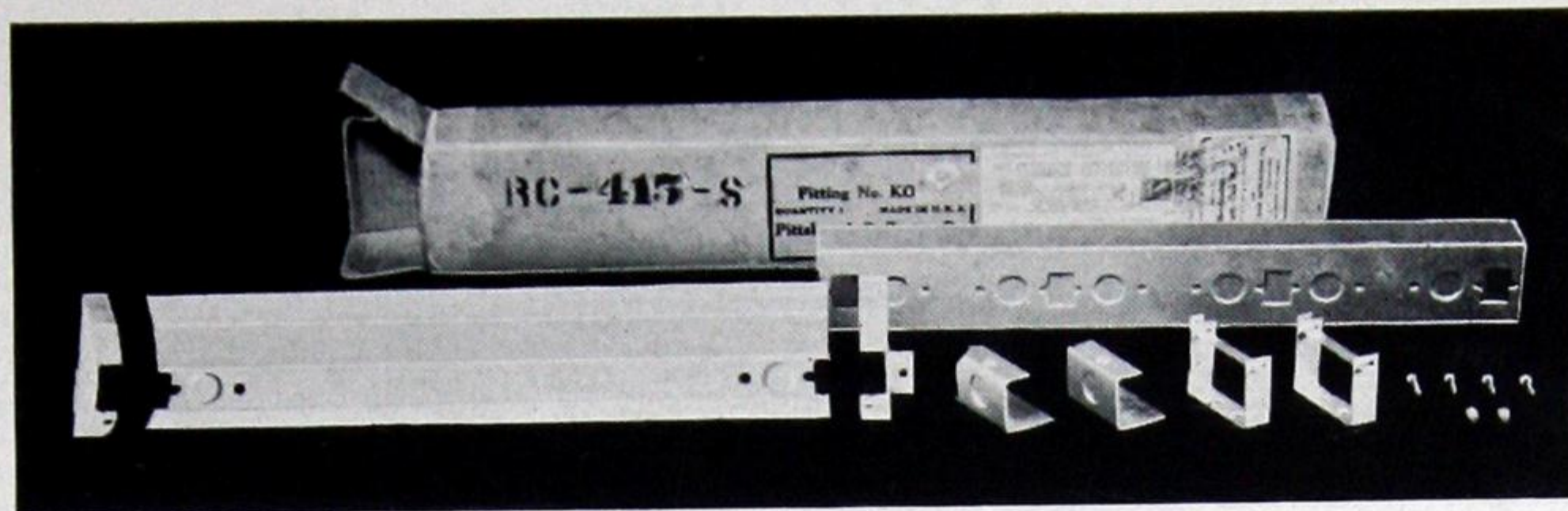
(Sketch No. 8)



(Sketch No. 9)



"READY-CUT" FLUORESCENT UNITS



RC-415-S as Shipped

"Ready-Cut" for single-lamp units or two-lamp units (lamps end-to-end) consist of the appropriate length of Knockout Strip and the necessary assortment of stock items. A single catalog number covering the various assortments and combinations makes ordering simple. Each "Ready Cut" unit is shipped knocked down ready for wiring and assembling in a single package.

Each "Ready Cut" unit is shipped knocked down ready for wiring and assembling in a single package.

"READY-CUT" SINGLE FLUORESCENT UNITS (Without Flu-RE-Flector)

Consist of:

- 1—Length of No. KO-41, Ready-Cut
- 2—End Caps No. KO-22

- 2—U-Straps No. KO-43
- 2—Ballast Connectors No. KO-44

Catalog No.	Overall Length	Lamp Size	Standard Quantity	Weight Approx. Lbs.	Retail Price Each	CODE
RC-415	19 1/2"	15 Watt	1	5	\$2.19	FONFI
RC-420	25 1/2"	20 Watt	1	5 1/2	2.45	FONTU
RC-430	37 1/2"	30 Watt	1	6 1/2	2.70	FONRE
RC-440	49 1/2"	40 Watt	1	8 1/2	3.15	FONFO

"READY-CUT" SINGLE FLUORESCENT UNITS (With Symmetric Flu-RE-Flector)

Consist of:

- 1—Length of No. KO-41, Ready-Cut
- 2—End Caps No. KO-22
- 2—U-Straps No. KO-43

- 2—Ballast Connectors No. KO-44
- 1—Flu-RE-Flector
- 2—Reflector Ends No. KO-60-S

RC-415-S	19 1/2"	15 Watt	1	6 1/2	3.70	FONES
RC-420-S	25 1/2"	20 Watt	1	7	4.10	FOTUS
RC-430-S	37 1/2"	30 Watt	1	9 1/2	4.75	FOTES
RC-440-S	49 1/2"	40 Watt	1	12	5.50	FOFOS

"READY-CUT" SINGLE FLUORESCENT UNITS (With Asymmetric Flu-RE-Flector)

Consist of:

- 1—Length of No. KO-41, Ready-Cut
- 2—End Caps No. KO-22
- 2—U-Straps No. KO-43

- 2—Ballast Connectors No. KO-44
- 1—Flu-RE-Flector
- 2—Reflector Ends No. KO-60-A

RC-415-A	19 1/2"	15 Watt	1	6 1/2	3.70	FONA
RC-420-A	25 1/2"	20 Watt	1	7	4.10	FOTUA
RC-430-A	37 1/2"	30 Watt	1	9 1/2	4.75	FOTRA
RC-440-A	49 1/2"	40 Watt	1	12	5.50	FOFA

"READY-CUT" DOUBLE FLUORESCENT UNITS (Without Flu-RE-Flector)

Consist of:

- 1—Length of No. KO-41, Ready-Cut
- 2—End Caps No. KO-22

- 3—U-Straps No. KO-43
- 4—Ballast Connectors No. KO-44

RC-432	6'-1 1/2"	2-30 Watt	1	9	4.80	FOTATU
RC-442	8'-1 1/2"	2-40 Watt	1	12	5.30	FOFATU

"READY-CUT" DOUBLE FLUORESCENT UNITS (With Symmetric Flu-RE-Flector)

Consist of:

- 1—Length of No. KO-41, Ready-Cut
- 2—End Caps No. KO-22
- 3—U-Straps No. KO-43

- 4—Ballast Connectors No. KO-44
- 2—Flu-RE-Flectors
- 2—Reflector Ends No. KO-60-S
- 1—Reflector Connector No. KO-59-S

RC-432-S	6'-1 1/2"	2-30 Watt	1	17	8.70	FOTETUES
RC-442-S	8'-1 1/2"	2-40 Watt	1	19	9.75	FOFOTUES

"READY-CUT" DOUBLE FLUORESCENT UNITS (With Asymmetric Flu-RE-Flector)

Consist of:

- 1—Length of No. KO-41, Ready-Cut
- 2—End Caps No. KO-22
- 3—U-Straps No. KO-43

- 4—Ballast Connectors No. KO-44
- 2—Flu-RE-Flectors
- 2—Reflector Ends No. KO-60-A
- 1—Reflector Connector No. KO-59-A

RC-432-A	6'-1 1/2"	2-30 Watt	1	17	8.70	FOTRATUA
RC-442-A	8'-1 1/2"	2-40 Watt	1	19	9.75	FOFATUA



"READY-CUT" FLUORESCENT UNITS

KO-51 Size (Mogul)

"READY-CUT" DOUBLE FLUORESCENT UNITS

(Without Flu-RE-Flector)

Consist of:

- 1—Length of KO-51, Ready-Cut
- 2—End Caps No. KO-52

- 3—U-Straps No. KO-53
- 4—Ballast Connectors No. KO-64

Catalog No.	Overall Length	Lamp Size	Standard Quantity	Weight Approx. Lbs.	Retail Price Each	Code
RC-530	6'-1½"	2-30 Watt	1	19	\$5.50	FITRY
RC-540	8'-1½"	2-40 Watt	1	22	6.50	FIT0Y

"READY-CUT" DOUBLE FLUORESCENT UNITS

(With Symmetric Flu-RE-Flector)

Consist of:

- 1—Length of KO-51, Ready-Cut
- 2—End Caps No. KO-52
- 3—U-Straps No. KO-53

- 4—Ballast Connectors No. KO-64
- 2—Symmetric Flu-RE-Flectors
- 2—Reflector Ends No. KO-60-S
- 1—Reflector Connector No. KO-59-S.

RC-530-S	6'-1½"	2-30 Watt	1	24½	9.25	FITES
RC-540-S	8'-1½"	2-40 Watt	1	30½	10.90	FIFOS

"READY-CUT" DOUBLE FLUORESCENT UNITS

(With Asymmetric Flu-RE-Flector)

Consist of:

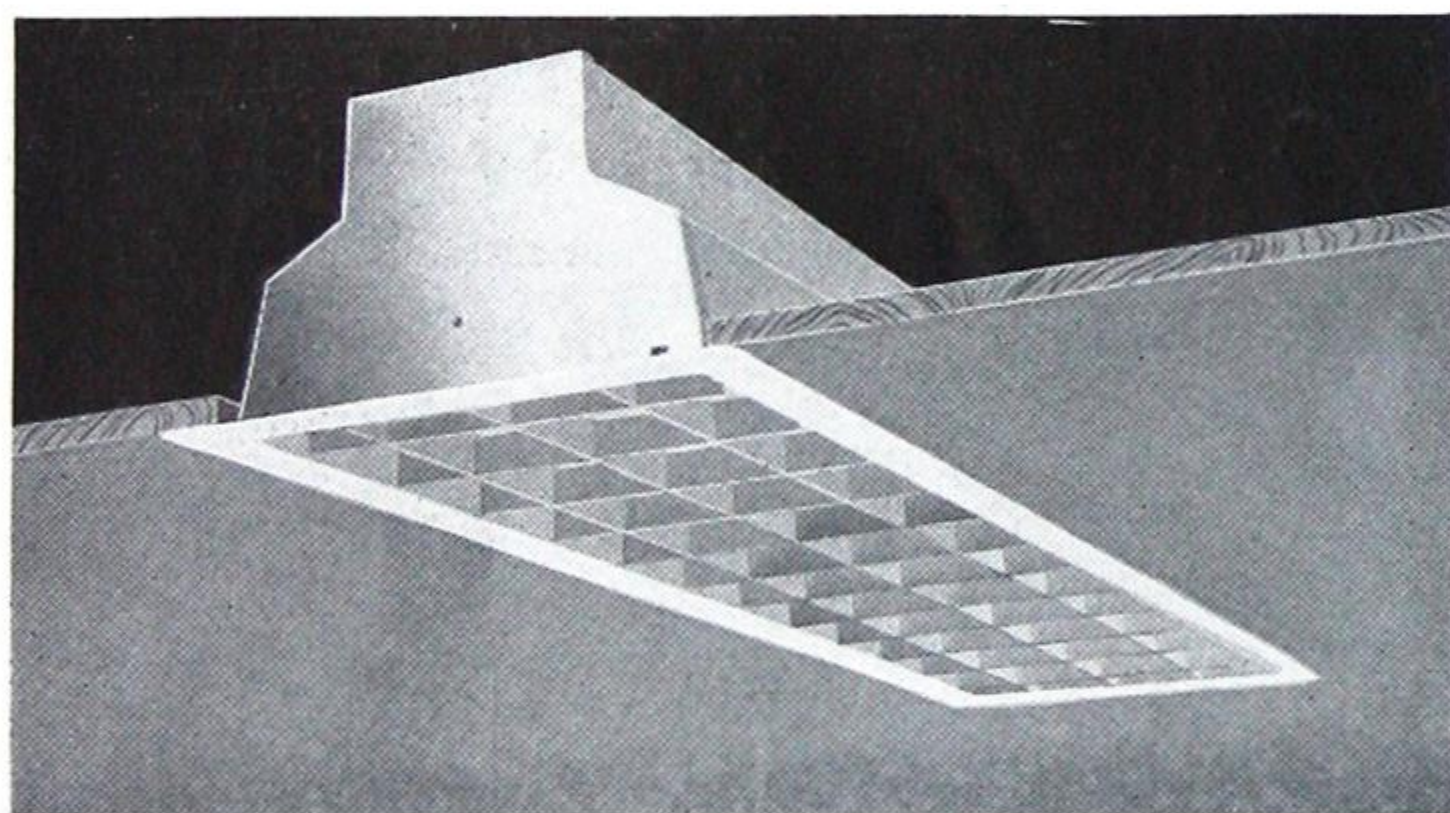
- 1—Length of KO-51, Ready-Cut
- 2—End Caps No. KO-52
- 3—U-Straps No. KO-53

- 4—Ballast Connectors No. KO-64
- 2—Asymmetric Flu-RE-Flectors
- 2—Reflector Ends No. KO-60-A
- 1—Reflector Connector No. KO-59-A

RC-530-A	6'-1½"	2-30 Watt	1	24½	9.25	FITAY
RC-540-A	8'-1½"	2-40 Watt	1	30½	10.90	FIFOY

RECESSED TULAMP FLUORESCENT UNITS NO'S RF-236, RF-248

(Sprayed and Baked White Enamel Finish)



No. RF-236 installed in wood ceiling.

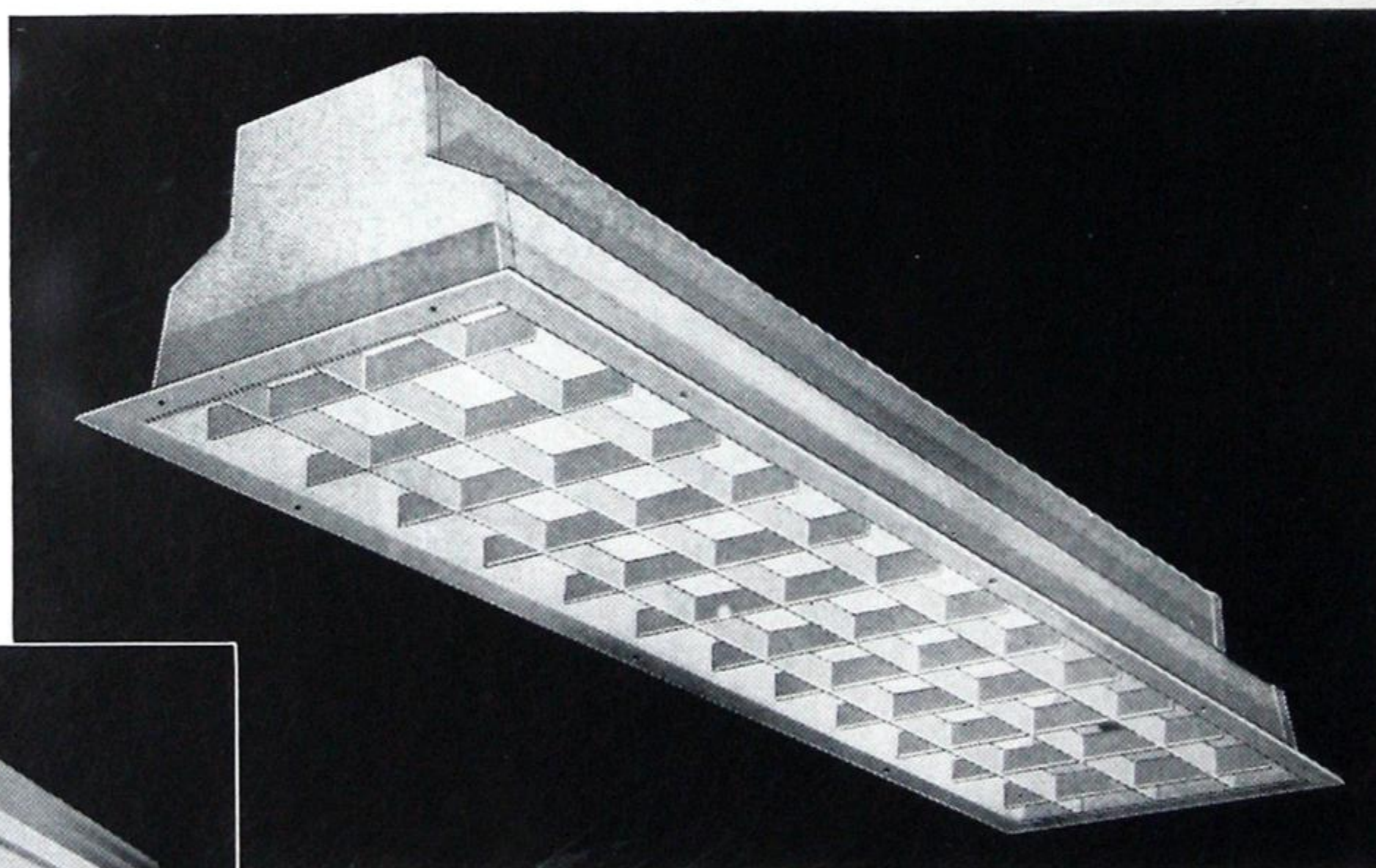
Description—Each unit consists of an inverted trough-shaped housing equipped with a removable V-trough section which contains knockouts to accommodate lampholders, starter sockets and starting switches. This V-trough section telescopes into the inverted housing where it is securely held in position by clips. The exposed face of this trough serves as part of the reflector and can be quickly removed (before or after installation) for servicing auxiliaries. A hinged eggcrate louver, mounted flush with the bottom of the unit, is scientifically designed to mask the lamps and eliminate glare from the normal angles of vision. The louver may be swung open permitting free, easy access to lamps and starters by releasing the two knurled head screws that hold the louver in position.

Two methods of installation may be used. If a rectangular opening in the ceiling, of appropriate dimensions, framed in wood be provided, the fixture may be fastened in position by means of wood screws through the screw holes of the flange. Or a plaster frame furnished by us may be set in the ceiling when it is plastered, and it will provide the method of support by inserting machine screws through the flange of the fixture.

These units are shipped assembled but not wired and not equipped with lamp holders, ballasts, capacitors or starters.



Louver open for servicing lamps and cleaning



Pittsburgh Fluorescent Tulamp Recessed Unit No. RF-236-Louver closed

Catalog Number . . .	RF-236	RF-248
Lamp Size	2—30 watt 36" lamps	2—40 watt 48" lamps
Dimensions (overall). (depth)	38" x 10¾" 6"	50" x 10¾" 6"
Dimensions Framed Opening in Ceiling . . .	36½" x 9"	48½" x 9"
Standard Quantity . . .	1	1
Shipping Weight	20 lbs.	28 lbs.
Code	AREFS	AREFA
Retail Price Each . . .	\$21.60 \$24.35 (with plaster frame)	\$23.60 \$26.75 (with plaster frame)
Plaster Frame	No. 236	No. 248
Retail Price Each . . .	\$ 2.75	\$ 3.15



PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA

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PERMAFLECTOR SALES REPRESENTATIVES

BRANCH OFFICES

CHICAGO, ILL., R. O. Williams, Mgr., 1158 Merchandise Mart. (Superior 0970-1).
NEW YORK, N. Y., Chas. H. Goddard, Mgr., 1775 Broadway (Circle 7055-6).
SAN FRANCISCO, CALIF., H. A. Gardner, 807 Flatiron Bldg. (Garfield 1885).
DETROIT, MICH., J. Morris Jones, 10366 Orangelawn Ave. (Hogarth 5156).
LOS ANGELES, CALIF., Frank E. Hastings, 810 Transportation Bldg. (Trinity 9801).
KANSAS CITY, MO., Mervin Simons, 615 Manufacturers Exchange Bldg. (Harrison 2768).
SEATTLE, WASH., Lyman D. Morgan, 703 Securities Bldg. (Elliott 7500).

FACTORY REPRESENTATIVES

ATLANTA, GA., M. L. Whitman, Bona Allen Building (Walnut 0977).
BALTIMORE, MD., W. B. Masland Co., 621 W. North Ave. (La Fayette 4544).
BOSTON, MASS., Detweiler-Bell Co., 25 South St. (Hancock 6191).
BUFFALO, N. Y., H. H. Mallon, 368 Elm St. (Washington-2004).
CLEVELAND, OHIO, Handel-Davies Co., 230 Chester-Twelfth Bldg. (Main 2684).
DALLAS, TEXAS, Geo. E. Anderson Co., Sante Fe Bldg. (7-4013).
DENVER, COLORADO, Paul A. Douden, 1645 Wazee Street (Keystone 6798).
INDIANAPOLIS, IND., Scott-Jaqua Co., Indiana Terminal Warehouse (Riley 7825).
MINNEAPOLIS, MINN., Balch Sales Co., 417 South Sixth St. (Main 8758).
PHILADELPHIA, PA., Hopkin Bros., Inc., 116 N. 7th St. (Lombard 8368).
RUTHERFORD, N. J., H. G. Otis, 131 Woodward Ave. (Rutherford 2-4740).
SALT LAKE CITY, UTAH, Raymond Ackerman, 318 Dooly Block (5-2322).
ST. LOUIS, MO., M. J. Cleary Co., 1217 Louderman Bldg., (Central 0153).
WASHINGTON, D. C., Sam Masland, 410 Bond Building (National 3934).



PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA

